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By Shawn Hamilton. White Bear, a Hopi elder of the Bear Clan, recorded his tribe's stories about their origins as well as cycles of destruction and migration. He warned about the demise of the present Fourth World.

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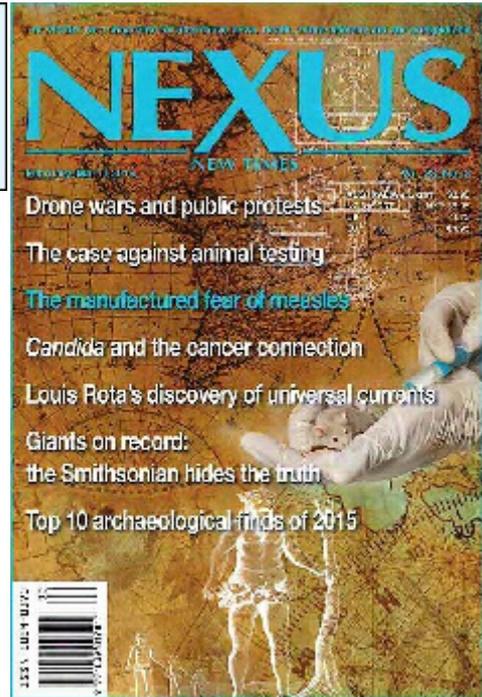
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#### **CARTOONS**

# NEXUS

NEW TIMES MAGAZINE

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email: editor@nexusmagazine.com



## Editorial

Greetings, and welcome to our 160th issue of NEXUS Magazine! As you well know, the information delivery "industries" have changed dramatically since NEXUS was born back in the mid-1980s.

Fewer people read magazines than ever before. Fewer people watch "normal" TV and fewer people listen to radio. In 2014, Reuters commissioned a report to discern where Americans were getting their daily news. Approximately two-thirds of Americans get their daily news via Facebook—and three-quarters of these people view Facebook on a mobile device.

Print media, free-to-air TV and standard radio are all dying slowly as emerging generations abandon the "smoke-signal" technology of their forebears and embrace the addiction of instant-fix information—only some of which is actual news. For magazine publishers, this means that fewer people actually go into a newsagent or store to buy magazines—and those who do are mostly "not young".

I've watched the writing on the wall for several years. From the moment that *Reader's Digest* stopped its newsstand sales, I could see that the rest of the print media were not far behind. Retail stores that sell magazines are closing in droves. Postal prices are going up. Companies that distribute magazines to shops are closing down. Just yesterday our own distributor in Australia announced it is shutting its doors after a long history, but we have a new one.

The advent of more information has not resulted in more people being better informed: the quantity of information has increased, but the *quality* has become diluted—unless you know where to look and whom to trust.

So, on 1 January 2015 I launched the Alternative News Project (ANP) which has been rounding up all the alternative and independent news each day and making it available as a sorted and personalised newsfeed service. A year later it has over 10,000 users and is expanding fast. I urge anyone interested in saving time and money for their daily alternative news to join the ANP. See the advertisement in this issue.

Note that the NEXUS Conference is on again this year on 18-20 June. Hugh Newman (*Ancient Aliens*) will be speaking about giants in the historical record (see article this issue), and David Paulides (USA) will be discussing the unreported numbers of missing persons and giving some thoughts on what is happening.

David Griffin (UK), Alec Newald (NZ) and I will share our combined intel on what is popularly becoming known as "black goo"—an artificial intelligence nanotechnology terraforming agent. Plus there'll be lots of other speakers (still being confirmed) and stallholders. Visit our website for more details.

This issue, of course, contains the usual quota of what I think is amazing information. Check out the article on Louis Rota: what an amazing inventor and scientist—another person who conquered gravity and discovered the aether in

the process.

The other article this issue that excites me is "Giants on Record", where it is clear that early Spanish, Portuguese and English explorers regularly saw what we would call "giants" in the Americas and reported on them in their journals and diaries.

Little surprise, then, at the thousands of graves found by white settlers in North America, where giant bones were all routinely sent to the Smithsonian Institution when found. I guess that evidence of giants doesn't suit the new global religion (science), which seems determined to misinform humanity as to our true origins, history and purpose. Till next time!

*Duncan*

# Letters to the Editor ...

## **Moon Landings Fraud**

Dear Editor: I designed and built the Apollo Moon Landing exhibit for The American Park at the 1970 world's fair [Expo '70] in Osaka, Japan, during the fall and winter of 1969.

I had a mock-up of the LEM [Lunar Excursion Module, as it was originally designated] supplied by NASA. I had samples of "Moon dust" supplied by NASA. I had a mock-up spacesuit supplied by NASA as well. At the time, I believed the government's story. I have had time to reconsider the truth of the matter.

Consider the size of the LEM door: the bulkiness of the spacesuits meant that the astronauts would barely have fitted through it. Several assistants were necessary to dress each astronaut while on Earth. In the cramped interior of the LEM, how did they dress and undress each other? Apollo 17 spent three days on the Moon. How big were the diapers? How did they eat and drink with their helmets on?

Exiting and re-entering the LEM and donning and removing the helmet requires de-pressuring and re-pressuring each time. The door has one handle and one locking element.

The astronauts collected unwanted dust and Moon dirt on their suits on each trip out, and dragged their dirty spacesuit legs over the door seal each time they crawled out and back in. The dirt and dust were smeared over the door seal each time. Close the LEM door and how much air was lost through the dirty seal? How did the door maintain its seal after blastoff?

Additionally, NASA built and left a "Moon buggy" worth millions of dollars on the Moon. The greatest gift that NASA and the astronauts could have given world astronomers would have been to leave a remote-controlled telescope (pre-Hubble design) on the Moon. Being able to view space from the Moon would have allowed fine measurements of distance and images of stars far more clear and defined than any available at that time. No such device was ever used nor even developed.

I do not know if anyone went to the Moon. I *do* know that the evidence of their alleged journeys was faked.

Josef P.  
Alaska, USA

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## **Farewell to John Morgan**

Dear Duncan: Australian investigative writer John Morgan passed away on Thursday 19 November following a lengthy and courageous battle with multiple system atrophy. John, who in late 2014 completed a series of 10 forensic books about the death of Diana, Princess of Wales, in Paris in 1997, died peacefully at his home in Redcliffe, near Brisbane, Queensland.

John worked tirelessly right up until his final hours, talking and sharing with his global family of friends and relatives. Over many years, John formed a strong relationship with his far-reaching circle of like-minded colleagues. He will be greatly missed by all.

Lana Morgan  
Redcliffe, Queensland, Australia

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## **Flat Earth Myth Debunked**

Duncan: I've been a NEXUS reader for about 15 years. NEXUS has always been my think-outside-the-box companion.

I have recognised and then gleaned more information about various conspiracies over the years by voraciously devouring every NEXUS that came my way. I've always viewed your magazine as an open-minded search for the truth.

However, because of a conspicuous and curious lack of coverage on one particular (and one huge) conspiracy, I am beginning to see your magazine as having a set agenda, as disappointing as it may be. Where is your

openmindedness? Why is there no coverage at all about the flat Earth awakening that has been occurring this past year? YouTube is awash with overwhelming evidence that any logical, open-minded truth-seeker cannot ignore.

Is your magazine simply too invested in promoting the idea of aliens from other planets and the spinning globe model to dare touch this topic?

My decision to reluctantly cancel my subscription awaits your response.

Sincerely,

Darrell  
Tennessee, USA

*[Dear Darrell: I am well aware of the recent resurgence in the flat Earth theory. The YouTube clips I've seen of it seem to stem from interpretations of horizon distance and curvature anomalies which, in my opinion, are not evidence of a flat Earth. In my view, there are many false beliefs about light and gravity which hinder a proper understanding of the whole subject. For example, the "speed" of light varies with latitude, and gravity is not a property of mass. I believe in the existence of a charged aether and thus that gravity is not a pull from "within" but a push from "without".*

*Also, for what it is worth, nobody believed that the Earth was flat in ancient or mediaeval times; this is a fiction invented by an American writer in the early 19th century. Here's how the myth was started.*

*In 1828, Washington Irving's book A History of the Life and Voyages of Christopher Columbus was published. It is supposedly a "biography" of Columbus, but it is actually historical fiction. Most of us know of Irving from his two most famous works: The Legend of Sleepy Hollow (1820) and Rip Van Winkle (1819). In the "biography" of Columbus, Irving describes a scene where Columbus stood in front of the Council of Salamanca and tried to convince Inquisitors that the Earth is actually round. The flat Earth myth was found only in Irving's book until Charles Darwin's On the Origin of Species was published in 1859.*

*The Earth is not flat, which is why there has been no coverage in NEXUS.*

*Before you cancel your subscription, I'd like to say thanks for reading the magazine for all those years. Ed.]*

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### **Fukushima Fallout Fears**

Dear Duncan: After reading the article in NEXUS 23/01, I suggest that off-world intervention may be our planet's only hope for salvation regarding the Fukushima disaster.

I refer to item 5 of Project Censored's list regarding the effects of the fallout in relation to the Pacific Ocean and the forecast for radiation from plutonium-239 and uranium-238 in relation to our fish stocks. It seems we may already be subjecting ourselves to these permanent poisons by eating fish from this "unclean" ocean.

Please keep your readers informed of all updates on this global disaster.

As always, an excellent magazine.

Neil E.

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### **Confusion over Garlic**

Hi Duncan: In NEXUS 22/03 [April-May 2015], Maurice Czarniac's article about aged garlic found my interest. Upon researching, I found an article by Bob Beck (inventor of the Beck Zapper), also from NEXUS [February-March 2001, 8/02], where he states that garlic causes toxic shock! There's a video on YouTube where he warns about it (it will kill you).

I've contacted Maurice Czarniac and he wrote that the scientific evidence is on the side of garlic. What are your views about it?

Karl  
Austria

*[Hi Karl: There are two "concerns" regarding garlic, according to its opponents. One is that garlic is an indiscriminant killer of organisms. For example, when used in the garden it kills all bugs, not just the "bad" ones. The same happens in the human body. The other concern is that some ingredients in garlic can cross the blood-*

*brain barrier. Many people who follow the Ayurvedic tradition do not recommend garlic, while many cultures in Europe have used it for centuries without any discernible negative health consequences. There are many species of garlic, and different preparations (e.g., ageing) and different cooking methods add even more variables to sort out.*

*My advice is to follow your gut instinct (not the rational, thinking brain) about if, when and how to eat garlic. Ed.]*

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### **Fever Cure for Cancer**

Dear Duncan: In the latest issue of NEXUS (23/01, page 7), there is a report on new evidence that a fungal infection may be involved in or responsible for Alzheimer's disease. This leads to a very interesting possibility that we could have a cure for Alzheimer's by combining two phenomena: that high body temperature is hostile to fungi, and that "fever cures" kill cancers.

For a long time, biologists could not understand the evolutionary reason why birds and mammals maintain such a high internal body temperature. Maintaining this internal state requires a large calorie consumption. Eventually they spotted one key benefit: that a high internal body temperature is a hostile environment for fungal infections. By keeping a high internal temperature, they could keep fungi at bay.

Also, in the 1870s in New York, Dr William Coley found that if a cancer-suffering patient experienced a high fever, this fever could eradicate their cancerous tumour. It seemed that in the patient's feverish state, the body's immune system switched to a higher level of activity where it attacked foreign bodies that would otherwise have been left alone. Coley successfully repeated this cure on many of his patients but failed to convince the medical establishment to use it as a standard method.

Since that time, chemotherapy and radiotherapy have taken over as cancer treatments, but the "fever cure" is still sound, although it requires careful handling on the part of the doctor.

If we combine the above facts, it may be that inducing a fever in Alzheimer's patients could cure them of their disease. Such a method is dependent on the fungus in their body actually being responsible for their disease, rather than being a side-effect of the disease. It would also require the patient's doctor to fine-tune a bacterial dose that could induce a fever in the patient without risking life.

Unfortunately, according to at least one oncologist, the practice of inducing fever to cure cancer is currently banned by the medical establishment, even though there is a lot of evidence to support its efficacy. The fact that such a "fever cure" method is unpatentable and requires no expensive equipment but does require time and effort on the part of a doctor may be partly to blame.

Best regards,

Adrian Ellis  
UK  
[adrian\\_ellis@mac.com](mailto:adrian_ellis@mac.com)  
[www.adrianelis.co.uk](http://www.adrianelis.co.uk)

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### **Electrosensitivity Concerns**

Dear Editor: I stopped my subscription to NEXUS because there are far more serious matters to write and read about, such as the increasing illnesses, deaths and sensitisation of humans. These problems are caused by untested and untried (except on the population) technologies. Only the countries that use low-frequency guidelines promoted by the BioInitiative Working Group seem to care about these issues. The UK does not!

Those who have been sensitised and have electrosensitivity (ES) or electromagnetic hypersensitivity (EHS) care very much that non-sensitive people are totally unaware of the dangers. Not only is our condition ignored by authorities in the UK, but we are discredited as being mentally ill or crackpots!

I've since resumed my subscription and I enclose a few of my articles.

Yours sincerely,

Sandi L.  
Powys, UK

*[Dear Sandi: Thanks for your articles and for resubscribing. We often cover this subject. Ed.]*

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#### **SMART GRID TO BE CONTROLLED BY AI**

As more renewable energy sources come online, energy storage has grown in importance, especially when the sun sets each day and the wind stops blowing.

Predictive analytics and control software are now being applied to the problem of energy storage as a way to monitor and control demand spikes and connect storage systems to the emerging smart grid.

The latest example comes from AutoGrid Systems, the developer of an "energy data platform" that uses smart meter, sensor and other utility data to generate a real-time assessment of energy consumption and recommendations for efficient power distribution.

AutoGrid, based in Redwood City, California, announced on Monday [14 December] that energy storage specialist Electro Power Systems (EPS) would use its predictive control system to build and operate "software-defined power plants". (Source: *Technocracy.news*, 16 December 2015, <http://tinyurl.com/gphk7ks>.)

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#### **TOXINS FOUND IN FRACKING FLUIDS AND WASTEWATER THREATEN HEALTH**

Hydraulic fracturing or fracking has increased dramatically in recent years and the practice is expected to grow in the future.

It involves drilling into the earth—as deep as two miles (3.2 km)—and releasing a high-pressure mixture of water, sand and chemicals that fractures the rock and releases the gas trapped inside. Fracking is now commonly used in the United States and has significantly boosted domestic natural gas production and driven down prices.

However, the practice may come with significant public health consequences, warn critics of fracking, noting that the process has the potential to contaminate drinking water supplies with toxic chemicals. Air pollution, greenhouse gas emissions and small earth tremors from the drilling and waste disposal processes are also cited as concerns.

In an analysis of more than 1,000 chemicals in fluids used in and created by fracking, Yale School of Public Health researchers found that many of the substances have been linked to reproductive and developmental health problems. The majority of the substances were found to have undetermined toxicity as there is insufficient information about them.

Further exposure and epidemiological studies are urgently needed to evaluate potential threats to human health from chemicals found in fracking fluids and wastewater created by fracking, said the researchers in their paper published on 6 January in the *Journal of Exposure Science & Environmental Epidemiology*.

The researchers evaluated available data on 1,021 chemicals used in fracking. They analysed 240 substances and concluded that 157 of them—chemicals such as arsenic, benzene, cadmium, lead, formaldehyde, chlorine and mercury—are associated with either developmental or reproductive toxicity. Of these, 67 chemicals are of particular concern because they have an existing federal health-based standard or guideline.

(Source: *YaleNews*, 6 January 2016, <http://tinyurl.com/hjrukq4>)

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### **MIND-READING TECHNOLOGY DECIPHERS WORDS FROM BRAIN WAVES BEFORE THEY ARE SPOKEN**

A "mind-reading" device that can decipher words from brain waves without their being spoken has been developed by Japanese scientists, raising the prospect of "telepathic" communication.

Researchers have found that the electrical activity in the brain is the same when words are spoken as when they are left unsaid. By looking for the distinct wave forms produced before speaking, the team was able to identify some simple words— when spoken in Japanese.

The scientists behind the technology said they can identify brain waves associated with syllables or letters of the Japanese alphabet, meaning that it may be possible to decode entire words and sentences without the need for any of them to be spoken physically.

To "listen" to the unspoken words, the researchers used electroencephalography, or EEG, a test method which records electrical activity from the brain using an array of electrodes on the scalp to detect the brain waves.

The team focused on a part of the brain known as "Broca's area", which is thought to be involved in language processing and speech.

Lead author Professor Toshimasa Yamazaki, an expert in brain computer interfaces at Kyushu Institute of Technology in Japan's Fukuoka Prefecture, and his team asked 12 men, women and children to recite a series of words, measuring their brain waves as they did so.

The researchers found that each syllable produced a distinct brainwave activity from the initial thought to the actual utterance. Activity could be seen up to two seconds before a word was spoken.

(Source: *DailyMail.co.uk*, 6 January 2016, <http://tinyurl.com/j3gdtq2>)

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### **MONSANTO TO BE INVESTIGATED FOR ENVIRONMENTAL CRIMES**

Monsanto is to be tried at the International Monsanto Tribunal on 12-16 October 2016 in The Hague, the Netherlands.

The initiative for the Monsanto Tribunal comes from a coalition representing all sectors of civil society.

Included in its steering committee are: scientist-scholar Vandana Shiva; former French Environment Minister, Corinne Lepage; award-winning journalist, and director of the documentary *The World According to Monsanto*, Marie-Monique Robin; molecular biologist, and leading researcher on toxicities of GMOs and glyphosate herbicides, Gilles-Eric Seralini; Hans Herren of the Millennium Institute; and former UN Special Rapporteur on the Right to Food, Olivier De Schutter.

Since the early 20th century, Monsanto has developed and sold highly toxic products including PCBs (polychlorinated biphenyls), 2,4,5-T (a dioxin-containing component of Agent Orange); Lasso®, a herbicide banned in Europe since 2006; and Roundup®, "the source of the greatest health and environmental scandal in modern history".

Roundup/glyphosate, falsely claimed by Monsanto to be safe and harmless, became the world's most widely and pervasively used herbicide. It has brought rising tides of birth defects, cancers, fatal kidney disease, sterility and dozens of other illnesses.

Monsanto is charged with having been able to persistently ignore the health and environmental damages caused by its products through "a strategy of systemic concealment: by lobbying regulatory agencies and governments, by resorting to lying and corruption, by financing fraudulent scientific studies, by pressuring independent scientists, by manipulating the press and media, etc."

The Monsanto Tribunal in The Hague will assess the allegations against the corporation and evaluate the damages caused.

The Tribunal will also assess potential criminal liability and consider whether a reform of the international criminal law is warranted to include crimes against the environment, or ecocide, as prosecutable criminal offences. (Sources: *Institute of Science in Society*, 7 December 2015, <http://tinyurl.com/jmbx6gr>; <http://www.monsanto-tribunal.org>.)

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## NO BRAKE ON MEDIA OWNERS' INTERESTS

The *Times* today [5 December 2015] carries an article on ISIS oil interests, Syria and Turkey. Nowhere does it inform its readers that the owner of the newspaper, Rupert Murdoch, has a vested interest in this subject through his role and shares in Genie Energy, an Israeli company granted oil rights in Syria by the Israeli government. Dick Cheney and Lord [Jacob] Rothschild are also shareholders. They really are. This is not a conspiracy theory. It is a conspiracy.

That Israel should grant oil rights within Syria is of course a striking example of contempt for international law, but then that is the basis on which Israel normally operates.

Of course, Genie's share value will be substantially boosted by the installation of a neocon puppet regime in Damascus which can be bought to underwrite the oil concession granted by Israel.

Contempt for international law has been the single most important defining characteristic of neoconservatism, and the need to uphold international law is the recurring theme of this blog.

But to return to Murdoch's oil interests in Syria, when Fox News, Sky News, the *Times*, the *Sun* and Murdoch's numerous other media outlets bang the drum for Western military action in Syria, there is no requirement for the consumer of this propaganda to be told that the outlet is pushing a policy in line with the financial interests of its owner.



Even for those actively seeking information, there is no register of the interests of media proprietors.

It is a wonderful irony that there is a register of the interests of board members of the Independent Press Standards Organisation, but no register of the interests of media proprietors!

The Leveson Inquiry totally ignored the real rot in Britain's media: the massive concentration of media ownership and subservience to other corporate interests. The revised code of conduct which was its result does not contain any reference to proprietors' interests, even in the very limited context of writing about stocks and shares.

A financial journalist has a duty to declare any personal or family interest in a company that he or she reports on, but no duty to declare any interest of the media outlet's proprietor—the person who is paying the journalist to write.

(Source: *CraigMurray.org.uk*, 5 December 2015, <http://tinyurl.com/jyrh8p4>.)

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## THE BIGGEST (AND POSSIBLY MOST TERRIFYING) COMPANY YOU'VE NEVER HEARD OF

Serco. Chances are you've never heard of the company. From transport to air traffic control, from getting your licence in Canada to running all seven immigration detention centres in Australia, private prisons in the UK and nuclear arsenals, from having a military base presence to having run all state schools in Bradford, UK, Serco,

somewhere, has played a part in moving, educating or detaining people.

New contracts awarded to Serco include the Saudi Railway Company, further air traffic control in the US and also IT support services for various European agencies.

Serco's history began in 1929 as a UK subsidiary, RCA Services Ltd, to support the cinema industry. In the 1960s, the company made a leap into military contracts to maintain the UK's Ballistic Missile Early Warning System.

From there, the company continued to grow. Now trading as Serco Group, as of 11 August 2015 it recorded revenue of £3.5 billion and maintained an underlying trading profit of around £90 million. Serco today is one of the biggest global companies in existence.

In 2013, Serco was considered a potential risk and came to represent the dangers of outsourcing. The UK government developed contingency plans in case Serco went bankrupt. When the concerns came to light, Serco faced bans (along with G4S, another outsourcing contractor) from further bidding on new UK government work for six months.

It wasn't until Rupert Soames, OBE—Sir Winston Churchill's grandson—took on the job as Serco's Chief Executive in 2014 that Serco turned a new corner of profit growth.

(Source: *MintPressNews.com*, 11 January 2016, <http://tinyurl.com/zv3u5dy>.)

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### **LEADING SYRIAN HUMAN RIGHTS GROUP IS EU-FUNDED FRAUD**

In reality, the Syrian Observatory for Human Rights was exposed long ago as an absurd propaganda front, operated by Rami Abdul Rahman out of his house in England's countryside.

According to a December 2011 Reuters article titled "Coventry - an unlikely home to prominent Syria activist", Abdul Rahman admits he is a member of the so-called "Syrian opposition" and seeks the ouster of Syria's President Bashar al-Assad. After three short spells in prison in Syria for pro-democracy activism, Abdul Rahman came to Britain in 2000 fearing a longer, fourth prison term.

One could not fathom a more unreliable, compromised, biased source of information, yet for the past two years Abdul Rahman's "Observatory" has served as the sole source of information for the endless torrent of propaganda emanating from the Western media.

Perhaps worst of all is that the United Nations uses this compromised, absurdly overt source of propaganda as the basis for its various reports—at least that is what the *New York Times* claims in its article "A Very Busy Man Behind the Syrian Civil War's Casualty Count" [9 April 2013]. The article contains this admission:

"Military analysts in Washington follow its body counts of Syrian and rebel soldiers to gauge the course of the war. The United Nations and human rights organizations scour its descriptions of civilian killings for evidence in possible war crimes trials. Major news organizations, including this one, cite its casualty figures."

The article reveals that Abdul Rahman's operation indeed receives funding from the European Union and from "one European country that he declines to identify".

(Source: *Land Destroyer Report*, 12 April 2013, <http://tinyurl.com/j742zpq>.)

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### **RESEARCHERS FIND LINK BETWEEN GUT BACTERIA AND LYMPHOMA**

Researchers from UCLA's Jonsson Comprehensive Cancer Center have discovered that specific types of bacteria that live in the gut are major contributors to lymphoma, a cancer of the white blood cells.

Published online ahead of press today [16 July] in the journal *Cancer Research*, the study was led by Robert Schiestl, Professor of Pathology and Laboratory Medicine, Environmental Health Sciences and Radiation Oncology.

In rodents, intestinal bacteria influence obesity, intestinal inflammation and certain types of epithelial cancers. (Epithelial cancers affect the coverings of the stomach, liver or colon.)

However, little is known about the identity of the bacterial species that promote the growth of, or protect the body from, cancer—or about their effect on lymphoma.

Up to 1,000 different species of bacteria (intestinal microbiota) live in the human gut. Intestinal microbiota number 100 trillion cells; over 90 per cent of the cells in the body are bacteria.

The composition of each person's microbiome—the body's bacterial make-up—is very different, due to the types of bacteria that people ingest early in their lives and also due to the effects of diet and lifestyle.

Professor Schiestl's group wanted to determine whether differences in people's microbiomes affect their risk for lymphoma and whether changing the bacteria can reduce this risk. They studied mice with ataxia telangiectasia (A-T), a genetic disease that in humans and mice is associated with a high rate of B-cell lymphoma.

They discovered that, of mice with A-T, those with certain microbial species lived much longer than those with other bacteria before developing lymphoma and had less of the gene damage (genotoxicity) that causes lymphoma.

"This study is the first to show a relationship between intestinal microbiota and the onset of lymphoma," Professor Schiestl said. "Given that intestinal microbiota is a potentially modifiable trait, these results hold considerable promise for intervention of B-cell lymphoma and other diseases."

(Source: EurekaAlert.org, 16 July 2013, <http://tinyurl.com/k2u5g86>.)

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## HOW FRANCE LOOTS ITS FORMER COLONIES IN AFRICA

Just before France conceded to African demands for independence in the 1960s, it carefully organised its former colonies (CFA countries\*) in a system of "compulsory solidarity".

Presidents of CFA countries that have tried to leave the CFA zones have had political and financial pressure put on them by successive French governments. CFA zones are solicited to provide private funding to French politicians during elections in France.

It is the Colonial Pact that set up the common currency, the CFA franc, for the Francophone countries, which demands that each of the 14 CFA member countries [two of them former Portuguese and Spanish colonies] must deposit 65 per cent of their foreign currency reserves plus another 20 per cent for financial liabilities, making the dizzying total of 85 per cent, in an "operations account" at the French Treasury in Paris. This means that they only ever have access to 15 per cent of their own money, and if they need more they have to borrow their own money from the French at commercial interest rates!



Map indicating member countries of the CFA zones in Africa.

It is also the Colonial Pact which demands that France have the first right to buy or reject any natural resources found in the land of the Francophone countries. So even if the African countries could get better prices elsewhere, they cannot sell to anybody until France says it does not want to buy those natural resources.

It is, again, the Colonial Pact that demands that in the award of government contracts in the CFA countries, French companies should be considered first; only after that can the African member countries look elsewhere. It doesn't matter if the Africans can obtain better value for money elsewhere; French companies come first, and most often get the contracts.

There was the awkward case in Abidjan where, before the elections, the then president Laurent Gbagbo's government wanted to build a third major bridge to link the central business district (called Le Plateau) to the rest of the city, from which it is separated by a lagoon. By Colonial Pact tradition, the contract must go to a French

company, which incidentally quoted an astronomical price—to be paid in euros or US dollars.

Not happy, Gbagbo's government sought a second quote from the Chinese, who offered to build the bridge at half the price quoted by the French company, and—wait for this—payment would be in cocoa beans, of which Cote d'Ivoire is the world's largest producer. But, unsurprisingly, the French said: "Non; you can't do that."

Overall, the Colonial Pact gives the French a dominant and privileged position over Francophone Africa, but in Cote d'Ivoire, the jewel of France's former possessions in Africa, the French are overly dominant.

Almost all of the major utilities—water, electricity, telephone, transport, ports and major banks—are run by French companies or French interests. The same story is found in commerce, construction and agriculture.

(\*CFA stands for Communauté Financière Africaine, or the African Financial Community.)

(Source: By Siji Jabbar, *ThisIsAfrica.me*, 24 January 2013, <http://tinyurl.com/lnb4kbc>.)

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### **VIRGIN BIRTHS SEEN IN TWO GENERATIONS FOR FIRST TIME**

Virgin births are far more common than thought. Some female reptiles and chickens can produce offspring without copulating with a male. Females do this by adding an extra set of chromosomes to their eggs. It had only been seen in captivity—until two virgin births were recently recorded in a wild sawfish and a pit viper.

Now, researchers have seen a whitespotted bamboo shark, born via parthenogenesis, go on to have her own pups by parthenogenesis, as revealed by genetic testing.

Parthenogenesis happens in 20 snake species, so virgin births aren't just a rare trick.

(Source: *NewScientist.com*, 13 January 2016, <http://tinyurl.com/zfkx3ve>.)

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### **NEGATIVE INTEREST AND THE WAR ON CASH**

If you're an ordinary saver with your money in the bank, you may soon be paying the bank to hold your funds, rather than the reverse.

Four European central banks—the European Central Bank, the Swiss National Bank, Sweden's Riksbank and Denmark's Nationalbank—have now imposed negative interest rates on the reserves they hold for commercial banks, and discussion has turned to whether it's time to pass on those costs to consumers.

The Bank of Japan and the [US] Federal Reserve are still at ZIRP (zero interest-rate policy), but several Fed officials have also begun calling for NIRP (negative interest-rate policy).

The stated justification for this move is to stimulate "demand" by forcing consumers to withdraw their money and go shopping with it. When an economy is struggling, it is standard practice for a central bank to cut interest rates, making saving less attractive. This is supposed to boost spending and kick-start an economic recovery.

That is the theory, but central banks have already pushed the prime rate to zero and still their economies are languishing. To the uninitiated observer, this means that the theory is wrong and needs to be scrapped. But not to our intrepid central bankers, who are now experimenting with pushing rates below zero.

The problem with imposing negative interest on savers, as explained in the UK *Telegraph*, is this: "[T]here's a limit, what economists called the 'zero lower bound'. Cut rates too deeply, and savers would end up facing negative returns. In that case, this could encourage people to take their savings out of the bank and hoard them in cash. This could slow, rather than boost, the economy."

Again, to the ordinary observer, this would seem to signal that negative interest rates won't work and the approach needs to be abandoned. But not to our undaunted central bankers, who have chosen instead to plug this hole in their leaky theory by moving to eliminate cash as an option.

If your only choice is to keep your money in a digital account in a bank and spend it with a bank card or credit card or cheques, negative interest can be imposed with impunity. This is already happening in Sweden, and other countries are close behind. As reported on *Wolfstreet.com*:

"The War on Cash is advancing on all fronts. One region that has hogged the headlines with its war against physical currency is Scandinavia. Sweden became the first country to enlist its own citizens as largely willing guinea pigs in a dystopian economic experiment: negative interest rates in a cashless society.

As Credit Suisse reports, no matter where you go or what you want to purchase, you will find a small ubiquitous sign saying *Vi hanterar ej kontanter* ('We don't accept cash')."

Whether negative interests will actually stimulate an economic recovery, however, remains in doubt.

Proponents of the theory cite Silvio Gesell and the Worgl experiment of the 1930s. As explained by Charles Eisenstein in *Sacred Economics*:

"The pioneering theoretician of negative-interest money was the German-Argentinean businessman Silvio Gesell, who called it free-money' (*Freigeld*)... The system he proposed in his [1916] masterwork, *The Natural Economic Order*, was to use paper currency to which a stamp costing a small fraction of the note's value had to be affixed periodically. This effectively attached a maintenance cost to monetary wealth.

"...[In 1932], the depressed town of Worgl, Austria, issued its own stamp scrip inspired by Gesell. The Worgl currency was by all accounts a huge success. Roads were paved, bridges built, and back taxes were paid. The unemployment rate plummeted and the economy thrived, attracting the attention of nearby towns. Mayors and officials from all over the world began to visit Worgl until, as in Germany, the central government abolished the Worgl currency and the town slipped back into depression."

(Source: *EllenBrown.com*, 20 November 2015, <http://tinyurl.com/pmc6z6w>.)

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# An A to Z of Drones in the News in 2015

The use of drones, or remotely piloted aircraft systems (RPAS), is increasing rapidly worldwide, and drone targeted-killings are also on the rise. Protests at drone bases and factories are becoming more common, while the public is being given scant information by politicians and military officials.

by Chris Cole  
Drone Wars UK

© 22, 29, 31 December 2015

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A Despite the end of NATO combat operations in December 2014, US drones continued to launch strikes in Afghanistan throughout 2015 as part of its (ahem) non-combat mission.

British drones departed Afghanistan for the Middle East, with TV presenter Adrian Chiles giving us an inside view of Royal Air Force (RAF) Waddington, home of British drone operations. Meanwhile, defence companies are now unashamedly marketing anti-drone devices to protect us from the drones that they are selling.

With all the money sloshing around the industry, it's perhaps no wonder that the ASTRAEA (Autonomous Systems Technology Related Airborne Evaluation & Assessment) program was denied further government funding.

B This year saw the publication of a number of excellent new books examining the technology, politics and ethics of the growing use of armed drones. Also expanding are the number of US drone bases around the globe, with Africa being a particular focus. Recent reports also suggest that Suffolk in the UK is to be the site of a new US drone operations centre.

Pakistan surprisingly joined the armed drone users club in 2015, with its Burraq drone launching strikes in North Waziristan. Less surprising perhaps is the fact that despite all the media hype, Britain's Brimstone missile has yet to be integrated into British drones.

C Civilian casualties from drone and air strikes in Iraq and Syria are mostly invisible in mainstream media reports, yet casualty recorders such as Airwars report that they are growing week by week.

The use of civilian contractors to maintain US military drone programs came under the spotlight in a Bureau of Investigative Journalism (TBIJ) analysis this year—and is likely to increase with the push to increase combat air patrols.

In the UK, Project CLAIRE (Civil Airspace Integration for RPAS in Europe) took a worrying step forward with the first flight of a military drone in unsegregated civil airspace.

D More British drones were deployed to the Middle East for operations against ISIS in Iraq and Syria at the beginning of the year. Despite calls for greater openness and transparency, the number of British drones in use against ISIS is officially a secret (but shhh!—the Defence Secretary seemed to have forgotten this when he told the French press that all 10 are in operation).

Prime Minister David Cameron committed again to double the UK's armed drone fleet (after doubling the number in operation in 2014) as part of the Strategic Defence and Security Review (SDSR). David Davis took over as Chair of the All Party Parliamentary Group on Drones and initiated an important debate around the use of drones for targeted killing. The UK's Cross Government Working Group on drones promised a public dialogue on drones, which so far, at least, has been neither public nor a dialogue.

E The debate on whether the growing use of armed drones is an effective means of creating peace and security continued throughout the year, the rancorous TV debate between journalist Glenn Greenwald and Dr Christine Fair being an extreme example.

Meanwhile, a US government report found that the use of Reaper drones by US Homeland Security to protect US borders had been largely ineffective. Enrique Iglesias needed surgery on his hand after grabbing a drone during a concert in May, one of numerous reports of injuries from civil drones. At the end of the year, Germany announced that it is taking over leadership of the European combat drone development program.

F Funding for drone development and operations seems limitless despite ongoing spending cuts in the UK and the US. Leaders from different faith communities spoke out against the use of drones for targeted killing, with leaders writing a joint letter to US President Obama and congressional leaders.

Despite the "pinpoint precision" of drone strikes, there were a number of reported friendly-fire deaths from strikes in Iraq during 2015. Meanwhile, the organisers of the Farnborough International Airshow are keen to have a Reaper

or a Global Hawk drone take part in the 2016 flying display to "help people get comfortable with the idea" of drones. Chances of either the drones' flying or the public's being comforted are slim to nonexistent.

G A new report from Corporate Watch detailed the impact of Israeli drones in Gaza—an issue that receives little attention from most drone-watchers—while Israeli security services began to use surveillance drones to monitor protests in the West Bank.

We learnt this year that RAF pilots are lent as a "gift of services" to the US Air Force (USAF) in order to operate US armed drones. Meanwhile, leaked documents suggested that the General Communications Headquarters (GCHQ) is also gifting intelligence to the US for its drone strikes. Google's attempts to steal Amazon's thunder ended in tears as its massive solar-powered drone crashed shortly after takeoff.

H The USAF's main drone training centre, Holloman Air Force Base (AFB) in New Mexico, is to undergo a dramatic expansion in 2016 to match the ever-growing need for drone pilots.

The 21-year-old British hacker Junaid Hussain was killed in a US drone strike in Syria in August, one of 10 Britons killed in such strikes according to TBIJ figures. After President Obama apologised and promised an investigation into the deaths of two Western hostages in a US drone strike, a coalition of human rights groups urged the same treatment for all civilian victims of US drone strikes.

I Reported Israeli drone strikes in Syria and Sudan received scant attention, as Israel simply refuses to acknowledge such operations. India abandoned development of its indigenous Nishant drone and turned its sights on procuring armed drones from Israel, while Italy received permission from the US to arm its Reaper drones.

The Pentagon's Inspector General launched an investigation into allegations that military officials have skewed intelligence reports to provide more positive accounts of the progress of the campaign against ISIS ("Islamic State"). Some suggested that documents have since been destroyed, seemingly as part of a cover-up.

J US officials confirmed in September that the Joint Special Operations Command, in conjunction with the CIA, is conducting drone operations aimed at killing "high-value targets" in Syria. The British hacker Junaid Hussain was said to have been one of the first targeted.

Mohammed Emwazi, the British ISIS militant known as "Jihadi John", was killed in a US drone strike in the centre of Raqqa in November. Despite strong lobbying from Republicans, Jordan was refused permission to purchase US drones; Israel has stepped in to supply them instead.

K The Campaign to Stop Killer Robots continues its efforts to ensure that a preventive ban is put on the development of autonomous weapons systems.

While US and UK diplomats insist that such weapons are not being pursued, simultaneously military officials argue that drones, "particularly autonomous ones", have to be "the new normal". Officials repeatedly refuse to disclose where British drones are currently based in the Middle East, although several reports—and satellite photos—suggest they are at the Ali Al Salem Air Base in Kuwait.

L Both the Israeli military and US Special Forces operated drones over Lebanon during the year, while the US also deployed drones to Latvia as part of the "European Reassurance Initiative".

Drone industry lobbyists were as active as ever behind the scenes, aiming to "relax" controls on drone exports while also challenging restrictions on drones flying in domestic civil airspace. While US drones have been flying some surveillance missions over Libya (and apparently crashing), such operations are likely to increase during 2016.

M Hollywood's discovery of the drone wars has resulted in several movies including *Good Kill*, starring Ethan Hawke, and the forthcoming *Eye in the Sky*, with Helen Mirren and Alan Rickman.

Many more are apparently in the pipeline. Michael Fallon, the British Defence Secretary, changed the methodology for calculating British drone and air strikes during the year, leading to "fewer" strikes on paper if not on the ground. Leaked US National Security Agency (NSA) documents showed clear links between the North Yorkshire US spy base RAF Menwith Hill and US drone strikes in Yemen.



Aerial view of RAF Menwith Hill spy base near Harrogate, North Yorkshire. (Source: Wikipedia)

N Nigeria's acquisition of Chinese armed drones was a complete surprise and clearly showed the global spread of drones, with the Netherlands being one of a number of European countries gaining US approval to purchase Reaper drones.

Naming continues to be an issue for the industry, with the UK choosing to rechristen the Predator B (Reaper) drone as the more soothing and acceptable "Protector" drone. The preposterously named nEUROn, the European combat drone prototype, continued its test program during the year with test flights in Italy and Sweden.

O A number of commentators highlighted that President Obama's much-promised openness on US drone strikes outside conflict zones has failed to materialise. In fact, there has probably been even less oversight of the targeted killing strikes within Iraq and Syria.

Authors George R. R. Martin and Will Self as well as General Stanley McChrystal (US Army, Ret.) were among a diverse and growing number of people voicing opposition to the way that drones are lowering the threshold for war.

P The pressure on pilots due to the ever-increasing demand for drones was a regular news item during the year. In December, the USAF announced changes that will now see enlisted personnel (and not just officers) fly drones—surveillance flights at first, but this will also likely change.

Police use of drones took a significant step forward in 2015, with many local forces announcing they are to trial the use of drones. At the same time, the number of drone incidents being reported to the police has rocketed. Protests at drone bases and factories continued during the year, with Creech AFB in Nevada and RAF Waddington in the UK being key focuses of attention.

Q Documents released by Edward Snowden brought fresh questions about GCHQ involvement in US drone strikes outside conflict zones.

Members of Parliament took the unusual step of writing to the UK Director of Public Prosecutions, Alison Saunders, suggesting it was time "to consider and issue clear guidance on the law, policy and procedure concerning the investigation of complicity into extraterritorial targeted killing".

Qatar continues to be an important hub for US and UK drone operations, with the Al Udeid Air Base hosting the US Combined Air Operations Center. British military operations against ISIS are also run from RAF Al Udeid in Qatar.

R Military officials from the US, UK, France and Italy first met in January as the Reaper Users Group, which were told is aimed at enhancing interoperability and reducing costs. More details emerged during the year of the role of the US air base at Ramstein, Germany, in the ongoing drone wars.

The base is a key communications hub linking the US with its armed drones around the globe. Hundreds marched on the base in September in response to the revelations. The debate continues over whether the use of drones for targeted killing is effective at reducing terrorism or is a recruitment tool for terrorist groups. Former military officers have been most vocal in arguing the latter.

S About 40 alleged militants were killed in a reported single US drone strike in Somalia at the end of January. Although the Pentagon publicly denied carrying out that particular strike, it was happy to confirm that US drones had struck Somalia on the very same day, targeting a senior leader of al-Shabaab.

There seems to have been a real change of tactics and an increase in drone strikes in Somalia, as Jack Serle of TBIJ noted early in the year. Perhaps inevitably, the increasing use of drones has been followed by the rise in numbers of military drones being shot down. American, Russian, Israeli and Saudi Arabian drones have all reportedly been

downed during the year, although it is impossible to confirm all these reports.

The safety and security threat from small civil drones began to be recognised during the year. As sales of these small, cheap drones take off, the threat will simply grow.

T The normalisation of drone targeted-killing took a step forward in 2015 as the UK government wholeheartedly embraced the tactic. Parliamentarians, US senators, the United Nations and civil society groups continue to struggle to limit, at the very least, such activity and gain some oversight of the process.

Transparency, however, is in short supply, and government contempt for proper public oversight, never mind for curbing the practice of targeted killing, is obvious. Meanwhile, BAE Systems' Taranis combat drone continued its test program with a third (and reportedly final) set of flight tests in November. The drone, or a derivative of it, is likely to be a contender for the UK's Future Combat Air System, likely to see some funding decision in 2016.

U British-based, Israeli-owned UAV Engines' attempts to curb protests at its factory in Staffordshire were botched during the year when the company failed to abide by court rules. In February, the Crown Prosecution Service dropped a case against nine protesters when the company refused to cooperate with court-mandated disclosures.

In July, protesters successfully overturned in the courts a "forbidden zone" around the factory, and then in October the High Court threw out an injunction as the company had in effect misled the Court. This led to the collapse of the case against a further 19 people arrested for breach of the injunction at a protest in July. Maybe UAV Engines should join US drone manufacturer General Atomics in setting up shop in the United Arab Emirates.

V The UK Ministry of Defence has suddenly developed a taste for releasing videos of British drone strikes. Since March 2015, there have been nine videos of such strikes published online—as opposed to just six released over the past seven years. The Vatican has long opposed the use of armed drones and the development of autonomous weapons, and this year drones have been banned from flying over Vatican City due to security fears.

W Whistleblowers helped us have a better understanding of the drone wars during 2015 with the release of a set of documents labelled as "The Drone Papers".

Edward Snowden's NSA revelations also revealed GCHQ links to US drone strikes and that personnel from Project *Widowmaker* were based at RAF Menwith Hill. Finally, former US drone pilots went on the record to detail the horrific consequences of the US drones targeted-killing program. The information released by whistleblowers is crucial to the public's understanding of drone warfare—thank you.

The manifest failings of the UK's Watchkeeper drone were laid bare this year. After spending almost £1 billion on its development, the UK got barely six days' use out of the (ahem) state-of-the-art drone in Afghanistan. Army training with the "all weather" drone is now being conducted in Ascension Island as the weather in the UK is not, er, suitable. Wimbledon was not immune to the intrusion of rogue drones, something that occurred at numerous sporting events during the year.

XYZ While Northrop Grumman was happy to feature the X-47B drone in its Super Bowl ad, the much more mysterious X-37B drone took off on another classified mission into space in May 2015. Don't expect it to be back any time soon: the previous secret mission lasted almost two years.

Despite the chaos and horror of the ongoing war in Yemen—in which more than 90 per cent of the casualties have been civilians—the US continues to launch drone strikes, with TBIJ reporting around 20 confirmed strikes and an additional 10 possible strikes.

The extremely high altitude Zephyr drone was purchased by the UK for use by its Special Forces. Airbus executives mistakenly let the cat out of the bag ahead of the SDSR in September. After a rushed Airbus retraction, the deal was discreetly confirmed as part of the SDSR in November.

#### **About the Author:**

Chris Cole founded Drone Wars UK in May 2010 to undertake research, education and campaigning on the use of unmanned aerial vehicles (UAVs) and the wider issue of remote warfare. It is recognised as a credible and reliable source of information on drones and unmanned technology.

Cole is the co-author of *Convenient Killing: Armed Drones and the Playstation Mentality* (2010). An extract from his report, "Drone Wars Briefing", was published in NEXUS 19/03.

His article in this issue is an edited version of his three-part series "A-Z of Drones 2015", which includes hyperlinks; part one is at <http://tinyurl.com/j5hggzw>.

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# Animal Pharmacy

## The Case Against Testing

The use of animals in product testing, medical research, pain analysis and other studies is scientifically questionable. While bans on testing in the cosmetics industry are in force in many countries, there's some way to go in other fields.

by Leon Horton

© December 2015

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Ask the experimenters why they experiment on animals and the answer is: 'Because animals are like us'. Ask the experimenters why it is morally okay to experiment on animals, and the answer is: 'Because the animals are not like us'. Animal testing rests on a logical contradiction.

— Professor Charles R. Magel,  
former Professor of Philosophy  
at Moorhead State University,  
Minnesota (d. 2014)<sup>1</sup>

Testing on animals, we are often told, is a necessary evil in the search for new medicines and modes of treatment for humans. Conventional science has long held the view that such research is ethically acceptable when it helps combat illness and disease. And yet an increasing number of leading medical bodies and research scientists are raising serious concerns about the validity of their own work...

You don't have to look too far on the Internet to find horrifying accounts and images of animals suffering in the name of scientific progress: primates force-fed poisonous chemicals, sheep and their unborn lambs surgically mutilated, genetically modified rodents bred to suffer dementia and motor dysfunction.

These specific examples are just a few of the experiments catalogued on the Animal Aid website.<sup>2</sup> Animal Aid, a UK animal rights group founded in 1977, cites the main areas of animal research as product "safety" testing, medical research, war research, pain analysis and psychology research.

"Progress", of course, is a word often deployed to justify some of the worst aspects of human behaviour. History teaches us that. However, it is not my intention to debate the issue of animal testing purely in terms of animal rights or welfare—as a meat-eater with little knowledge of the provenance of the food on my plate, that would be disingenuous.

Besides, better people than I can argue from that corner. Rather, I choose to look at the issue in pragmatic terms: not so much whether we should be doing testing on animals, but whether there is any point.

Since many countries do not collect or publish data on animal testing numbers, it is almost impossible to collate worldwide statistics, with estimates often relying on so-called expert opinion and extrapolation from known figures such as statistics from the European Union and the USA.

These figures often discount "lesser species" such as rodents and/or genetically bred animals and result in wide-ranging discrepancies. In 2005, for example, the UK's then Research Defence Society, whose sole function was to defend animal testing, conservatively estimated a global figure of approximately 50 million animals a year<sup>3</sup>; whereas in the same year, the British Union for the Abolition of Vivisection reckoned on a figure of 115 million.<sup>4</sup> Whichever is the more accurate, the numbers are astounding.

In a 2014 *British Medical Journal* article, "Is animal research sufficiently evidence based to be a cornerstone of biomedical research?"<sup>5</sup>, UK medical sociologist Pandora Pound and Yale epidemiology professor Michael B. Bracken argue that the benefits of animal testing remain unproven, despite an increase in available data in recent years.

Citing statistics from 2011, 2012 and 2013, they identify the problem as twofold. "As the number of systemic reviews increased, the poor quality of much preclinical animal research became increasingly apparent... Evidence accumulated that many animal studies failed to address important threats to internal and external validity, making prediction to humans tenuous at best.

Pound and Bracken reveal that public funding bodies are responding to this lack of return on their investments, with spending on animal studies in the UK down from 68.3 per cent in 2004-05 to 59.4 per cent in 2009-10:

"This seems wise since retrospective analysis of the payback from research is beginning to suggest that it is clinical [human] rather than basic [animal] research that has most effect on patient care. The drug industry is also

beginning to decrease its reliance on animal research because each translational failure represents huge losses of invested capital. In Europe drug companies have reportedly decreased their use of animals by more than 25% from 2005 to 2008."

The article's authors also take the opportunity to criticise pro-animal testers: "The animal research community continues to cite selected instances of how research on animals has resulted in medical advances. Understanding Animal Research, a British organisation financed mainly by those conducting or funding animal research, highlights four reports purporting to support the validity of animal research, all of which rely solely on expert opinion, one of the weakest forms of evidence according to widely agreed standards."

Understanding Animal Research (UAR) was formed in 2008 through the merger of the Research Defence Society and the Coalition for Medical Progress. According to its website, the advocacy group aims to "achieve broad understanding and acceptance of the humane use of animals in biomedical research in the UK, to advance science and medicine" and "challenge misinformation about animal research" using social media.<sup>6</sup>

How the use of *any* animals in biomedical experiments, whatever the purpose, can be described as "humane" is worthy of a discussion forum itself; but since the UAR consists solely of and is funded by various academic, pharmaceutical and research groups which are *pro* testing, is it any wonder they consider animal studies vital to the future of medical research? Advocacy of this kind—self-serving sock puppetry—does little to further debate on the issue. Rather, it seems, it is designed to head off any serious criticism.

Animal research, let's not forget, is big business: a multibillion-dollar industry, not just for the pharmaceutical, chemical and cosmetic giants but also for research universities and government bodies—all of whom have vested interests in allaying public concerns about the welfare of test animals, the ethical implications of such experiments and, ultimately, the validity of test results in terms of human application.

### **Toxicity Testing**

One of the most controversial practices in animal testing is the *in vivo* (taking place in a living organism) procedure known as the LD50 toxicity test. Developed in 1927 by pharmacologist Dr John William Trevan of the Wellcome Foundation, LD50 (meaning lethal dose, 50 per cent) does exactly what it says on the tin: test subjects of various species are forced to take in—orally, through the skin or by inhalation—different quantities of a given chemical in order to establish the dose at which 50 per cent of them die.

A standard LD50 uses 60-200 animals, often without anaesthetics or painkillers lest they affect the results, and can cost millions. Supporters of the test claim it is vital for establishing the fatal dose for humans. This may have carried some weight back in 1927 when fewer alternatives and less data were available, but by today's standards is a bit like sticking your hand in a fire to see if it hurts: it does, we know it does, we don't need to reaffirm it.

Indeed, Dr Gerhard Zbinden, one of the world's leading toxicologists, once described *in vivo* testing as little more than "a mass execution of animals". In his 1981 paper "Significance of the LD50-test for the Toxicological Evaluation of Chemical Substances"<sup>7</sup>, Zbinden documented and analysed numerous LD50 tests and concluded that, in most cases, they could be performed with far fewer test subjects, and in many instances were of no practical value since they did not predict the lethal dose for humans.

With his background in medicine and pathology, Zbinden never called for the abolition of animal testing but he clearly advocated a reduction of the use of animals in toxicology in favour of more modern experimental techniques.

After decades of criticism and documented evidence of the limitations of LD50 tests, the American Pharmaceutical Manufacturers' Association publicly denounced them. Now, thankfully, use of LD50 tests has been substantially replaced worldwide by alternatives such as the Fixed Dose Procedure, which requires fewer animals and, if only by numbers, reduces suffering. Such methods still involve the lethal use of animals, however, and continue to be debated.

### **Scientists Make a Stand**

If animal testing *is* necessary, as many advocacy groups claim, then why did a group of prominent scientists send an open letter to the *Times* newspaper in July 2015<sup>8</sup>, complaining of bullying tactics by the Association of Medical Research Charities which was forcing its members to support animal research publicly?

The letter, signed by, among others, Kathy Archibald (Director, Safer Medicines Trust), Geoffrey Pilkington (Professor of Cellular and Molecular Neuro-oncology, Portsmouth University) and Dr Aysha Akhta, MD (neurologist and public health specialist), reads: "As biomedical scientists and physicians, we are disturbed that the Association of Medical Research Charities (AMRC) now requires its members to publicly declare support for animal research.

Substantial evidence suggests that animal research does not reliably predict human response to medicines or accurately represent human diseases. The scientific community is becoming increasingly doubtful about the

relevance of animal research to human medicine."

The letter concludes: "AMRC should allow its member charities the freedom to develop their own progressive policies. Enforcing an illusory united front on this divisive issue forces charities to choose between losing support from AMRC or from concerned donors. It also goes against the fundamental spirit of science, which promotes the open exchange of ideas."

Whatever its reasoning, the AMRC has a new policy that seems unduly heavy-handed when you consider that it comes hard on the heels of a June 2015 European Commission decision, declining to back a Stop Vivisection campaign to ban animal testing across the European Union.<sup>9</sup>

In accordance with EU rules, under a mechanism called the European Citizens' Initiative, an EU Commission has to consider legislative changes if more than a million people in at least seven member states sign a petition calling for a change in a particular law or directive.

Stop Vivisection collected 1.1 million signatures in a bid to change Directive 2010/63/EU, which permits the use of live animals for medical research. In response, the Commission said the EU is aiming to phase out animal testing at some point (which perhaps explains the AMRC's aggressive stance) and promised to organise a conference on the issue by 2016, but concluded:

"...Directive 2010/63/EU is an indispensable tool at the EU level to protect those animals still required. The Directive implements the Three Rs [see sidebar on next page] - to replace, reduce and refine animal use in Europe."<sup>10</sup>

Nick Palmer, head of policy with the anti-vivisection group Cruelty Free International, responded to the decision, saying: "We are pleased in principle that the Commission is saying explicitly they think animal experiments should be phased out, but were unhappy with the absence of any clear strategy to do so." He also complained that according to the latest available data, the number of such experiments in the UK had risen.<sup>11</sup>

What hope, then, for animal rights and the organisations that exist to uphold them? One of the greatest weapons in any fight is public opinion—to educate and galvanise people to vote with their feet and, in doing so, force the "here today, gone tomorrow" politicians and profit conscious companies to take heed and act. If we don't buy it, they can't sell it.

### **An End to Cruel Cosmetics**

Nowhere has public opinion exerted more influence over animal experiments and the companies which conduct them than in the cosmetics industry—arguably the most controversial area of testing, since there is no justification on the grounds of medical advancement.

Here words like "necessity" and "validity" cut no ice, even with those who support testing for medicines, when the sole purpose of cosmetics is aesthetic. After all, what possible rationalisation for animal experiments can there be for a new deodorant or shampoo?

Thanks to the hard work of animal rights organisations, public consensus that animal testing has no place in cosmetics production resulted in a complete ban in the UK in 1998, with the rest of the EU following in 2009. Other countries still test cosmetics on animals, but since March 2013 no new products with ingredients that have been tested on animals have been allowed to be sold within the EU member states.

#### The Three Rs

In 1959, two British scientists, the zoologist William Russell and the microbiologist Rex Burch, published *The Principles of Humane Experimental Technique*<sup>12</sup>, a study of the ethical aspects of animal research commissioned by the Universities Federation for Animal Welfare. They said that all animal testing should incorporate, as far as is possible, The Three Rs.

Enshrined in the UK *Animals (Scientific Procedures) Act 1986*, The Three Rs (replacement, reduction and refinement) are a set of principles designed for research scientists to allay any doubts they have about experimenting on animals and, where it is deemed possible, to minimise animal suffering caused by studies. This three-pronged model suggests:

• **Replacement** of animal test subjects with alternative techniques or lower-order species by:

1. experimenting on cell cultures instead of animals
2. using computer models
3. studying human volunteers
4. using epidemiology studies

• **Reduction** of the number of animals used in experiments by:

1. improving experimental techniques
2. improving techniques of data analysis
3. sharing information with other researchers

• **Refinement** of the experiment and the way animals are cared for by:

1. using less-invasive techniques
2. providing better medical care
3. providing better living conditions.

Understanding Animal Research champions The Three Rs as indicative of an ethical approach to testing on animals, and yet it freely admits: "Although researchers continually improve studies to reduce the number of animals needed, this may not lead to overall reductions. Often this is simply because more biomedical research is being conducted."<sup>13</sup>

The Australian Greens party was quick to follow the EU's lead in March 2014 when the End Cruel Cosmetics Bill was put before Parliament by Senator Lee Rhiannon (it is still passing through the Senate at the time of writing, although in November 2014 the Senate passed a "no cruel cosmetics" motion). Senator Rhiannon told the Australian Broadcasting Corporation: "The Greens bill would ensure that cosmetics imported into Australia haven't been tested on animals, and also end the testing in Australia.

"We certainly do acknowledge that the industry in this country already takes a stand and works very hard to ensure that products are not tested on animals and it's a transition that we believe can happen quite easily.

"The bill would allow for a six-month transition period because it's already possible to ensure the cosmetics are developed without doing these terrible things where animals suffer, experience extreme cruelty, and often die."<sup>14</sup>

Craig Brock, from the cosmetics industry association Accord, responded to the proposed bill:

"There are many complicating factors which would need to be ironed out well before the parliament would be in any position to give this matter any serious consideration...

"The Australian cosmetics industry is competitive, innovative and highly responsive to its customers.

"There is plenty of choice in the Australian market for those consumers seeking products that have strong ethical policies and are cruelty-free."<sup>15</sup>

Ironically, many of the cosmetics companies which claim "no animal testing" are still benefiting from data where animals were involved, since the ingredients in many cosmetics are the same. Ever mindful of marketing strategies, companies can use the results of previous animal experiments while claiming their products are cruelty-free.

That may sound like a moot point, but since so many cosmetic products are made without reference to past test results then perhaps we, the consumers, should insist they all are.

### **A Step in the Right Direction**

I began researching this article with some trepidation, wondering how I could argue the case against animal testing when the cure for cancer argument was never far from my mind. Like so many, I've long held repugnance for such experiments; and yet, like so many, I still tacitly accepted them as justifiable in certain circumstances.

Now, however, I've seen enough evidence, read enough expert testimonials and arguments, both for and against, to form my own opinion: that the vast majority of animal testing—be it medical, chemical or just cosmetic—is not only unnecessary but is impossible to justify.

Yes, there *are* exceptions. Yes, there are grey areas. But to my mind it boils down to the same argument put forward by the AllTrials campaign (2013), which calls for an international law forcing the publication of all research trials on humans.

To do the same for animals is not only common sense but would avoid pointless repetition of experiments and drastically reduce the number of animals forced to endure invalid and therefore needless suffering and pain. It's a small step, but it's a step in the right direction.

In their paper, Pound and Bracken conclude:

"The current situation is unethical. Poorly designed studies and lack of methodological rigour in preclinical research may result in expensive but ultimately fruitless clinical trials that needlessly expose humans to potentially harmful drugs... Moreover, if poorly conducted studies produce unreliable findings, any suffering endured by animals loses its moral justification because their use cannot possibly contribute towards clinical benefit.

"Non-publication of animal studies is similarly unethical because the animals involved cannot contribute towards the accumulation of knowledge and because nonpublication may result in further, unnecessary animal and human experiments."

In other words: when the executioners question the death sentence, maybe it's time to hang up the noose.

#### **About the Author:**

Leon Horton is a journalist and writer. He studied medical laboratory science for a year before embarking on a career in the media. After completing his master's degree at the University of Salford he moved into journalism, enjoyed a caretaker stint as the editor of *Old Trafford News*, then returned to the terrifying freedom of freelance writing.

His article on clinical research studies, "Trials and Tribulations: The Truth about Clinical Research", was published in NEXUS, vol. 23, no. 1. Leon lives in Manchester, England, but that's another story. Horton can be contacted at [leonhorton@live.co.uk](mailto:leonhorton@live.co.uk)

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# The Manufactured Fear of Measles

Measles is a highly contagious self-resolving disease that can develop complications when wrongly managed or when a patient has a pre-existing condition. The vaccine causes severe life-spoiling reactions in some individuals, but the vaccine establishment discounts these adverse effects as merely coincidental.

by Wendy Lydall  
© January 2016

On Sunday 14 June 2015, the Australian population was treated to a blast of the terrifying "news" that measles cases were increasing and some people could die or become brain damaged because not every parent was having their child vaccinated.

The chief protagonist of this scare campaign was Professor Robert Booy of Australia's National Centre for Immunisation Research & Surveillance. Professor Booy had chosen not to learn something from me when we both appeared on a morning TV show in May 2013. The news anchor had introduced me as someone who claims that "diseases like the measles are beneficial for a child's development".

Professor Booy's response to this was: "Hoping that you'll get some kind of boost to your immune system has never been proved for measles. It's a theory that's been around for decades and there's no proof for it."

I interjected with: "I beg to differ. There *is* proof. There are studies in the medical literature which show that it is beneficial. For instance, a person who has had measles as a child is less likely to get chronic diseases in their adult life. And that is in the medical literature."

"Is that right, Robert?" asked the anchor.

Professor Booy avoided admitting that he had not read the medical literature on this topic by changing the subject: "I think the focus of this debate is being lost on the fact that thousands and millions of children have died from measles and we need to protect children against measles by the most effective and the safest way. Immunisation is second only to clean water, sanitation, in protecting babies' lives."

In this short interchange, four of the issues that confound health-conscious parents were raised: that measles is beneficial, that measles can kill, that vaccines are claimed to be safe, and that vaccines are claimed to be effective.

Professor Booy is partially correct in saying that the idea that measles is beneficial has been around for decades. The idea has actually been around for *centuries*. It can be observed that children take a jump in development during the course of measles.

Some people refer to the self-resolving childhood diseases as "developmental diseases" because they bring about a jump in development. It is sometimes seen that measles or another of the self-resolving childhood diseases makes a chronic condition clear up, and a few reports of chronic diseases being permanently cured by chicken pox, measles or rubella have been published in medical journals.

Measles, mumps, rubella and chicken pox are all self-resolving diseases, and under natural conditions they usually occur during childhood. They do not need any action to be taken to make them come to an end. They automatically come to an end by themselves.

They cannot be prevented by good nutrition, but the level of nutrition affects the way that the child copes with the disease. A natural infection by one of the self-resolving infectious diseases creates lifelong immunity, unlike the infectious diseases that do not automatically come to an end without intervention.

The age-old theory that the self-resolving childhood diseases are beneficial extends to the conviction that people who have had these diseases are less likely to experience chronic diseases in adulthood. In more recent times, evidence that supports this conviction has been published in medical journals.

The age-old theory has focused mainly on conditions like cancer and arthritis, as well as skin conditions like eczema and psoriasis, but surprisingly there is now evidence that these diseases also protect against heart disease. When properly managed to avoid complications, self-resolving childhood diseases have profound long-term benefits.

## Risk Factors and Risky Treatments

However, children who suffer complications that result in permanent damage are not healthier after measles. Children who are severely malnourished before they contract measles are at risk of dying from measles.

Usually their immune systems are so damaged by malnutrition that they cannot raise a fever to protect their brains

from the measles virus.<sup>1</sup> Severely malnourished children who survive measles often suffer from worsened malnutrition, even to the point that if they did not have full-blown kwashiorkor (a severe protein-energy malnutrition) before measles, they have it afterwards.<sup>2</sup>

For children who have long-standing malnutrition, there is usually insufficient food available during the recuperation phase after measles. Children lose their appetite during the acute phase of measles, which is the phase when they lie down, have a fever, and are covered in spots.

But once the acute phase is over they become extremely hungry, and if sufficient food is available they undergo growth spurts. Children who cannot obtain sufficient food during the recuperation phase end up shorter as adults than their genetic predisposition programmed them to be.<sup>3</sup>

While non-governmental organisations are working hard to end world poverty, the World Health Organization is trying to jab every child in poor communities with the measles-mumps-rubella (MMR) vaccine, which consequently is causing epidemics of autism. African languages use the term "the absent disease" for this new condition.

Children in affluent communities can also die or suffer permanent damage from measles. They are vulnerable if they have a pre-existing condition like cancer or pneumonia, or are taking immune-suppressing drugs. There are also borderline children who are not constitutionally strong enough to cope with the harmful treatments that doctors and nurses use for measles.

Doctors and nurses are trained to treat all the self-resolving childhood diseases with chilling and with drugs that suppress fever. These harmful treatments, which go against all the scientific studies that are published in medical journals, cause complications like encephalitis, pneumonia and death.

Medical journals are brimming with studies which show that suppressing fever in a patient with an infectious disease increases the risk of death, yet doctors and nurses are trained to treat measles with chilling and drugs that suppress fever. This is not surprising, as BigPharma controls what they are taught.

A shallow cough is normal with measles, but bronchitis and pneumonia are complications.

Pneumonia is the most common severe complication of measles, and it is also the most common cause of death during measles.<sup>4</sup> It boggles the mind that medically trained personnel want to chill a child with measles when they should know that this causes pneumonia.

The June 2015 fear campaign about measles lasted only one day, and then the media lost interest. If the aim was to cause the level of hysteria that was generated by the Disneyland, California, measles outbreak of December 2014, the attempt fell flat.

That outbreak resulted in 189 cases being officially reported in the US, and there were also cases in Mexico and Canada. Of those reported in the US, 45 per cent of cases were in the unvaccinated.

There would have been other cases among unvaccinated children that were not reported to the authorities because the parents wisely kept the children at home and managed them properly with bed rest, warmth and liquids.

In November 2012, a measles outbreak started in the UK. This was a great opportunity for vaccine promoters to create fear and hysteria about measles and to promote the MMR vaccine. As is always the case, both vaccinated and unvaccinated people contracted measles while the virus was having this episode of virulence.

One thing that struck me as odd was that some parents whose children came down with measles were shocked to discover that measles made their children want to lie down, have a fever and be covered in spots. In previous generations, people knew that tiredness, fever and spots were to be expected with measles.

Five months into the UK outbreak, a 25-year-old man who had measles died from pneumonia. The unfortunate man had all the risk factors for dying while he had measles: he was an adult, not a child; he had pneumonia; he was severely malnourished (which is unusual in Britain); and he had two serious, chronic diseases before he caught measles.

He was also taking a variety of prescription drugs, which may or may not have weakened his immune system. On top of all this he was given paracetamol, which is known to cripple the immune system.<sup>5</sup> The day before he died, his mother had taken him to a medical centre because he had a measles rash, a high fever and an infected chest, and he was in a state of collapse.

Even though there was hysteria in the community about measles, it did not occur to the three GPs who examined him that he might have measles and that his chest infection might be pneumonia. They told his mother to take him home and give him paracetamol. She obeyed, and he died during the night.

Because he was an unhealthy person he might have died from the pneumonia without the extra burden of

paracetamol, but it did not help that the paracetamol made his immune system less able to fight the pneumonia.

If he had been put in a hospital bed with an electrolyte drip, given an antibiotic for the pneumonia and given vitamin A because he was severely malnourished, he would have had a good chance of survival, even though they would have given him paracetamol as well. The official cause of death was given as pneumonia.

The medicrats who used the poor man's death to create fear about measles and to promote MMR vaccine failed to mention the factors that led to his death. The doctors whose negligence resulted in this man's death have not been held accountable.

### **The MMR Controversy**

Vaccine promoters frequently use the word "safe" to describe vaccines. Another favourite word is "rigorous", used when they are describing the process of trialling vaccines before they are licensed.

The reality is that the process of pre-licensure trialling is quite the opposite of rigorous.

Ten years before the MMR controversy appeared on the scene, I had correspondence with the two institutions in the UK which were supposed to ensure that the measles vaccine was safe before it was put on the schedule.

The institutions were the Committee on Safety of Medicines (integrated into the Commission on Human Medicines in 2005) and the National Institute for Biological Standards and Control. I started corresponding with them in 1989, asking them questions about how the vaccine was tested for safety. The replies I received were evasive. Their inability to provide me with the information made me realise that they had *not* tested the vaccine for safety before putting it on the schedule.

When mumps and rubella vaccines were added to the measles vaccine, creating the MMR vaccine, public disquiet about adverse reactions began to rumble. Some parents were saying that the MMR vaccine had made their children develop autism. The mindless mainstream media continually repeat the non-truth that it was Dr Andrew Wakefield who started the disquiet.

What actually happened is that when Dr Wakefield added his voice to the disquiet, the Murdoch empire targeted him and two other doctors who had expressed the opinion that there was a need for the possible relationship between MMR and autism to be investigated properly.

The Murdoch empire set up a "kangaroo court" which had a financial conflict of interest with the vaccine industry, and it found Dr Wakefield and Professor John Walker-Smith guilty of serious professional misconduct and the third doctor not guilty.

Professor Walker-Smith had the financial resources to take the matter to the High Court, which found that the kangaroo court's ruling had been inadequate, had used superficial reasoning and had come to a wrong conclusion. It quashed the kangaroo court's finding but, despite that, mainstream journalists continually repeat defamatory statements about Dr Wakefield and refrain from mentioning the High Court ruling.

When measles cases started occurring in the UK in 2012, the government and the vaccine fanatics escalated their vendetta against Dr Wakefield, and the mindless mainstream media did not allow him to defend himself against the false allegations. So he posted a video online in 2013 in which he described his investigation into the so-called science behind the trialling of the MMR vaccine:

*...Such was my concern about the safety of that vaccine that I went back and reviewed every safety study, every prelicensing study of the MMR vaccine and other measles-containing vaccines before they were put into children and after. And I was appalled with the quality of that science. It really was totally below par, and that has been reiterated by other authoritative sources since.*

The mainstream media continually repeat the fiction that it has been scientifically proven that MMR does not cause autism. There are no studies which show that MMR or any other vaccines do not cause autism. The vaccine industry has churned out a variety of shonky studies, none of which compares the rate of autism in the vaccinated and the unvaccinated.

### **Vaccine Promoters in Denial**

The vaccine defenders scorn the anecdotal evidence that MMR vaccine causes autism in some children, saying that anecdotal evidence is "not scientific". If they truly believed in science, they would want the anecdotal evidence to be followed up with methodologically sound scientific studies.

Anecdotal evidence is not enough to draw scientific conclusions, but it is an indicator that proper scientific research needs to be done. While the industry is refusing to do proper studies on the possible relationship between MMR and autism, it has no right to dismiss the anecdotal evidence.

An example of anecdotal evidence is the toddler who was using some words at 18 months and was "chatting" the morning before his MMR vaccination. He suffered a violent reaction to the vaccination and lost the use of words.

At 10 years old he still has no language, and the doctors and the government are denying that his loss of language as well as the other problems that started with the injection were caused by the injection.

They say that it is all just a coincidence. What these vaccine defenders are saying is that if that boy had not been injected with MMR that morning, he still would have screamed while clutching his head all afternoon, banged his head and jerked his limbs all night, lain on his bed and stared at the ceiling the whole of the next day, never made eye contact again, and never spoken again. They are saying that all of these things would have happened without the injection.

The vaccinators are also saying that it is a complete coincidence that similar reactions with similar long-term outcomes have presented in millions of other toddlers soon after injection with MMR.

They defend themselves from facing up to reality by claiming that they believe in "science", not in anecdotal reports. But the "science" to which they are referring is a raft of warped studies that do not compare the rate of autism in the vaccinated and the unvaccinated.

Dr Paul Offit is the world's most prominent vaccine defender, even going so far as to say that aluminum is a nutrient, not a neurotoxin. He did not serve his masters well when he made the admission that the lack of studies that compare vaccinated with unvaccinated means that there is "limited ability to assess associations between vaccination and adverse events with delayed or insidious onset (e.g., autism)".<sup>6</sup>

The vaccine industry has a variety of excuses for not doing studies that compare the rate of chronic disease in the vaccinated and the unvaccinated, the most ridiculous of which is that it would be unethical to do these studies.

The makers of this excuse range from hysterical bloggers to the sedate pharmlords at the US Institute of Medicine. In its 2013 report, the Institute admits that comparing vaccinated children with unvaccinated children would be the best kind of study and that the existing research about vaccine safety is not adequate, but it then goes on to say that it would be unethical and too expensive to do comparative studies.<sup>7</sup>

Another reason the Institute gives for not doing comparative studies is: "There are very low observed rates of adverse events with vaccination."<sup>8</sup> Wrong.

Very high rates of adverse events have been observed, but most adverse events are not recorded as such and are dismissed as "just a coincidence".

So high rates of adverse events are observed, but very low rates of adverse events are acknowledged. Ironically, by talking about "observed rates of adverse events with vaccination", the Institute of Medicine is basing its stance on anecdotal evidence.

It is saying that there is not the anecdotal evidence to warrant scientific studies. Wrong again. Even the tiny fraction of adverse reactions that are reported to official channels is enough to warrant proper scientific studies that compare the rate of autism in the vaccinated and the unvaccinated.

Some vaccine defenders claim that a study done in Denmark<sup>9</sup> compared autism in the vaccinated and the unvaccinated, but it did not. Whenever a new autism-MMR study appears in the armoury of the vaccinators, journalists around the world report that another study comparing the vaccinated with the unvaccinated has been done, proving yet again that the MMR vaccine does not cause autism.

Journalists do not read the studies before reporting on them: they only read a press release about the study and repeat what it says. An investigative journalist would read the actual study instead of just assuming that the study has been done properly.

The vaccine industry has been so skilful at manipulating the narrative about vaccines that we now see politicians, all the way from Hillary Clinton down to Daniel Andrews, chanting the mantra "The science is in".

Daniel Andrews is the Premier of Victoria, Australia, a state that has introduced a law, effective from 1 January 2016, forbidding any child who is not "up to date" with all 39 vaccines that are on the pre-school schedule from attending any kind of pre-school institution.

There is to be no conscientious or religious exemption, and any institution found harbouring a child who is not "up to date" will be fined A\$20,000. This is in line with a global crusade by BigPharma to make as many countries as possible force vaccines onto their reluctant citizens.

The UK is unlikely to follow suit because policy-makers are aware of the strife that resulted from vaccination being made compulsory for infants in 1853. They also know that the vaccination rate increased after the law was repealed

in 1898.

On 21 October 2015, the day that the draconian law was passed by the Victorian Parliament, Premier Daniel Andrews posted this on Facebook:

*No jab, no play—and no apologies from me. If your child isn't vaccinated you aren't just putting them at risk. You're putting every other child in the playground at risk. We won't stand for it in Victoria. Your health matters more than your opinions.*

The irony of his contempt for healthconscious parents is that he does not realise he has been manipulated by the vaccine industry and that his opinion is not based on science.

#### **About the Author:**

Wendy Lydall is an Australian-based anti-vaccination campaigner and researcher. She is the author of *Raising a Vaccine Free Child* (2009; reviewed in NEXUS 18/01). Copies of her book are available from NeXuS.

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# Is Invasive Cancer a Hyphal Fungus?

Cancer cells and yeast cells have a similar anaerobic energy metabolism. As a result of stress, they change into aggressive and invasive hyphal forms that behave in the same way and look remarkably alike. Medical researchers and practitioners would be well advised to consider this close connection.

by Walter Last  
© December 2015

Website:  
<http://www.health-science-spirit.com>

Conventional medicine regards cancer as a multitude of diseases with different causes and treatments. But what if they all have the same underlying cause and similar treatments, as suggested by Dr Tullio Simoncini?<sup>1</sup>

Dr Simoncini believes that cancer is mainly due to *Candida albicans*, the most common and aggressive fungus in the human body, and that an effective cure is to bathe a tumour in a solution of sodium bicarbonate. Here I want to show that there are even more reasons to suspect a causal relationship between *Candida* and cancer than suggested by Dr Simoncini.

A basic difference between normal body cells and fungal cells is with their energy metabolism. Normal body cells produce energy by oxidising nutrients in the citric acid cycle to carbon dioxide and water. Fungi cannot do this.

They produce their energy in an anaerobic way, or without oxygen. Fungi use mainly sugars and other simple carbohydrates and obtain their energy by converting these into lactic acid. This is very wasteful and produces only about five per cent of the energy that would be produced in the citric acid cycle.

This process generates large amounts of lactic acid, which makes the body overacid and causes mineral deficiencies, inflammations and pain.

Cancer cells have exactly the same kind of anaerobic energy metabolism as fungi. However, cells in tumours have different degrees of oxidative energy blockage. Therefore, the malignancy of a tumour is equivalent to the degree of oxidative energy blockage.

In other words, the more anaerobic the energy production of a tumour is the more malignant it is. But there is a difference in the energy production between cancer cells and fungi.

As I pointed out in my article "Cancer Therapy - A New Direction"<sup>2</sup>, the oxidative energy metabolism of cancer cells can be restored and these cells can be reconverted into normal body cells by eliminating the cancer cells' microbes or their toxins that block the oxidative metabolism.

This cannot be done with fungi, although it is possible to produce fungi with an oxidative energy metabolism—such as Zell Oxygen®, a live aerobic yeast made from *Saccharomyces cerevisiae*—in a way that is antagonistic to *Candida albicans*.

I suspect that this reversion of cancer cells is only possible as long as these cells live like a colony of yeast cells inside a tumour. Therefore, I regard a tumour as the equivalent of a colony of yeast cells.

When a yeast colony is stressed by overgrowth or other factors that restrict nutrient supply, it tries to expand and seek better conditions. This causes many of the yeast cells to transform into invasive hyphal fungus cells (see my article in NEXUS 23/01). These may then also form new colonies and fungal mycelia in distant organs.

Cancer cells behave in exactly the same way. When a tumour is stressed by facing overcrowding or a shortage of hormones or nutrients, or when attacked with surgery, chemotherapy, radiotherapy or other inflammation-causing methods, then the relatively harmless yeast-like tumour cells transform themselves into invasive migrating cancer cells that eventually form more dangerous metastatic tumours in distant organs.

With this, cancer cells do not only have the same anaerobic energy metabolism as fungi but they also behave in the same way when under pressure, and invasive metastatic cancer cells look exactly like hyphal fungus cells. Compare the following sets of images showing aggressive cancer cells and similar-looking hyphal fungus cells.

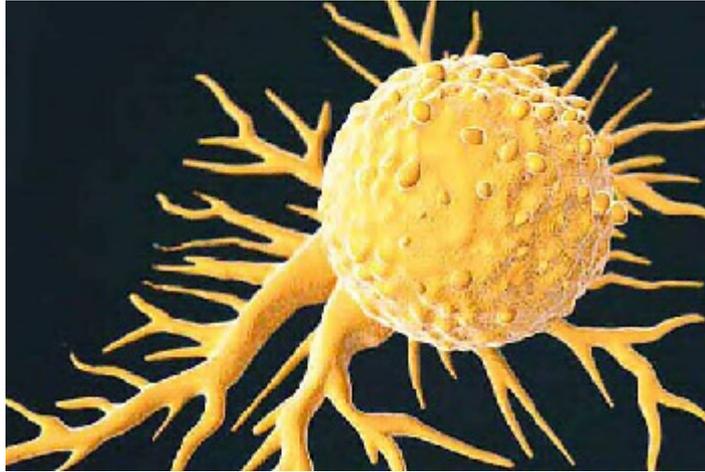


Figure 1: An invasive cancer cell (Source: OnlyMyHealth.com, <http://tinyurl.com/hld5cej> )



Figure 2: Fungal hyphae (Source: Wikipedia.org, <http://tinyurl.com/hq3k8o3> )

In figure 1 (above), you see such an invasive cancer cell which has grown hyphae or closely related structures called pseudohyphae similar to the fungal hyphae shown in figure 2 (above).

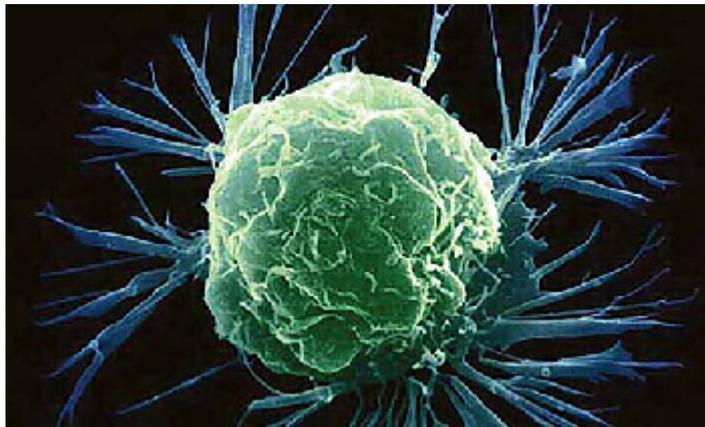


Figure 3: A breast cancer cell seen through an electron microscope. (Source: Science Photo Library, <http://www.sciencephoto.com> )

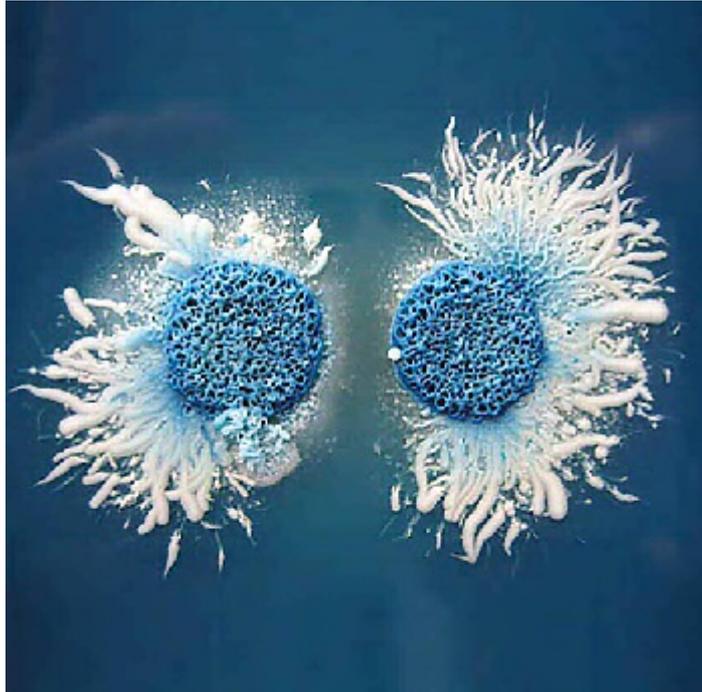


Figure 4: Hyphal *Candida* cells (Source: Roberts Lab, School of Aquatic and Fishery Sciences, University of Washington, <http://tinyurl.com/zcvfbgu> )

Breast cancer cells vary from yeast-like cells inside tumours to cells with a few long filaments and cells with dense hyphae-like protrusions, as in figure 3 (above). This is very similar to the hyphal *Candida* cells shown in figure 4 (above). (By the way, the displayed colours are not genuine but are due to staining.)

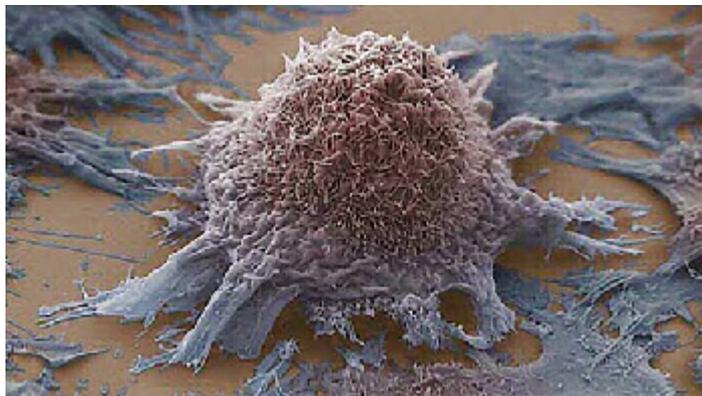


Figure 5: Lung cancer cell (Source: Cancer Research UK, <http://tinyurl.com/h2999nw> )

The lung cancer cell in figure 5 (above) has developed hyphae-like burrowing legs with which it can anchor itself in the tissue and also suck out nutrients. The hyphae release enzymes that break down the tissue into nutrients that the cancer cells or fungi can easily absorb.

Similar formations can often be observed in skin cancers and sometimes breast tumours. When these are killed with black salve, they fall out after a week or two, and one can see their complete structure including hyphae.

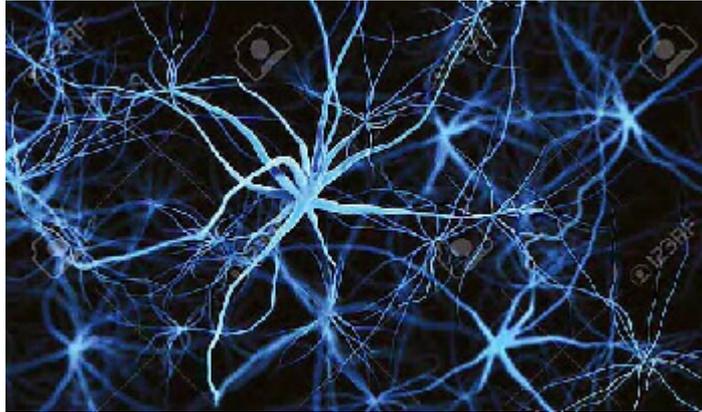


Figure 6: Metastatic cancer cell (Source: <http://www.123rf.com> )



Figure 7: Invasive hyphal fungus in the lungs (Source: Getty Images, <http://tinyurl.com/h2yyp4j> )

Most amazing for me is the metastatic cancer cell in figure 6 (above). Its shape does not seem to be any different from the invasive hyphal fungus in the lungs shown in figure 7 (above).

It is difficult for me to understand how mainstream researchers can claim that cancer cells are not at all like fungi but are something completely different. I remember a famous saying: "If it looks like a dead rat and smells like a dead rat, then it probably is a dead rat."

Of course, initially there is still a difference between cancer cells and fungi because cancer cells are body cells degenerating into fungal cells while conventional fungi have traditional genetic characteristics.

### **Other Cancer-Candida Connections**

In light of the strong similarity between metastatic cancer cells and invasive fungal cells, it is not surprising that in recent years there have been dozens and perhaps even hundreds of research publications comparing lung cancer with fungal infections of the lungs.

One of these papers, "Fungal Infection Mimicking Pulmonary Malignancy" concludes: "Fungal infection can present with clinical and radiological features that are indistinguishable from thoracic malignancy, such as lung nodules or masses."<sup>3</sup>

In almost all cases, tumours in the lungs are assumed to be due to cancer and no tests are made to check for fungi as a primary or contributing cause.

The German professor Meinolf Karthaus watched three children with leukaemia unexpectedly go into remission after receiving a triple antifungal drug cocktail for their "secondary" fungal infections. He led a research team that in 2006 published the results of six further cases where leukaemia disappeared after antifungal therapy.

There were actually many more cases but, in these, antileukaemia therapy was continued in addition to antifungal therapy. In the reported six cases, antileukaemia therapy was stopped when starting antifungal therapy for chronic disseminated candidiasis (CDC). In this article, the authors express their surprise and they speculate:

"Inadequate treatment is, however, usually associated with a poor outcome because of disease progression or early relapse, and it is surprising that despite minimal antileukemic treatment, all of our six patients with acute leukemia and CDC are still alive and in complete hematologic remission (follow-up between 19 months and 14 years).

"Therefore, one is prompted to speculate whether CDC, as a chronic inflammation, might have positively affected the continuous complete remission."<sup>4</sup>

I find it incomprehensible how medical professionals can speculate that the highly deadly CDC may be the cause of these leukaemia cures rather than the anti-*Candida* therapy used to eliminate CDC. Recently I had an email communication from one of the leukaemia patients of Professor Karthaus.

He wrote that the professor had not mentioned antifungal treatment to him. Therefore, it seems that Professor Karthaus has not yet come to a deeper understanding of his antifungal experiences.

In addition, much cancer research also shows that not only the lungs but also the liver and spleen are frequently damaged by aggressive candidiasis. This shows up especially during leukaemia treatment. If patients did not have severe candidiasis as a pre-existing condition, then they acquired it as a result of chemotherapy.

A long time ago, before I became aware of the link between *Candida* and cancer, I also had a surprise when a patient with stomach cancer had his big tumour disappear in a few months after he developed a craving for benzoic acid and ingested a lot of it. Benzoic acid is a common food preservative and a strong fungicide.

Milton White, MD, believed that cancer is a "chronic, intracellular, infectious, biologically induced spore (fungus) transformation disease". He found fungal spores in every sample of cancer tissue that he studied.<sup>5</sup>

Medical research shows that curcumin, the active ingredient in turmeric, is very effective against cancer cells in many different cancers, such as bowel, breast, brain and pancreatic cancer.

One research paper states: "Curcumin has been shown to inhibit the proliferation and survival of almost all types of tumor cells."<sup>6</sup>

Another paper lists a large range of diseases in which curcumin has been shown to be effective in clinical trials. These include cancer, cardiovascular disease, arthritis and many other inflammatory conditions. The article states: "How a single agent can possess these diverse effects has been an enigma over the years, both for basic scientists and clinicians."<sup>7</sup>

However, there is an explanation which is expressed in this title: "Curcumin as a promising antifungal of clinical interest".<sup>8</sup>

According to my understanding, all the mentioned diseases against which curcumin is effective have *Candida* and other fungi as a primary or contributing cause.

The antifungal article states that curcumin was a more potent remedy against some fungi than fluconazole, the main medical fungicide. It was very effective against *Candida albicans*! Yet in none of the research papers did I see any mention that the strong fungicidal properties of curcumin may have something to do with its anticancer effects.

There is not much research into the relationship between antibiotic use, the main cause of *Candida* overgrowth, and cancer, but a paper on breast cancer concludes: "Use of antibiotics is associated with increased risk of incident and fatal breast cancer."<sup>9</sup>

There are many more articles and scientific research papers on the Internet about the close association between cancer and fungi.

A very encouraging recent breakthrough is the publication in the prestigious journal *Nature* of an article showing that hyphal *Candida* and other fungi have been found in all investigated cases of Alzheimer's disease. These fungi were not only in different parts of the brain but also in blood vessels.<sup>10</sup>

This can give us hope that after decades of ignoring the role of antibiotics and fungi in the causation and treatment of cancer, there will now be some research money made available for exploring this link.

In the meantime, cancer patients already have the choice to use antifungal therapies in natural medicine instead of the methods of mainstream medicine that do not address the underlying causes and so leave the door open for conventionally treated cancers to come back.

#### **About the Author:**

Walter Last is a retired biochemist, research chemist, nutritionist and natural therapist based in Australia. His books are available at <http://tinyurl.com/4xkdqcu>

Walter Last is a long-time contributor to NEXUS. His most recent articles, "How to Manage the Immune System", "Pyroluria and *Candida*: Twin Causes of Modern Diseases" and "More Energy and Less Disease with Vitamin C and MSM", were published in NEXUS 23/01, 22/02 and 21/02 respectively.

For more information, articles and advice, visit Walter Last's website <http://www.health-science-spirit.com>

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# The Discoveries and Work of Louis Rota

A French-Italian pioneer in aviation, radio and antigravity detected what he called "the universal current", the source of all physical phenomena. He found out how to tap the energy flow and apply it in many ways, from locating enemy positions to developing healing therapies.

by Michael Watson

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## Introduction

Luigi ("Louis") Giovanni Valerio Rota was a Frenchman of Italian origin. He was born in 1886 and died in Genissieux near Valence, France, in 1951. Details of his early life are relatively unknown.

He was involved in pioneering aviation and experiments in wireless communication and antigravitation. His origins were in northern Italy and he was a contemporary of Marconi, so he was almost certainly influenced by his work. Rota wrote little about his discovery of *the universal current*.

Rota produced two booklets based on seminars—one in collaboration with a medical doctor, Dr Hubert Kresser; and the other in which he briefly outlined his work, but with only general details as to how the universal energy he claimed to have discovered was tapped or used. Nor did he describe any significant theory. However, Rota did discuss his research with one or two confidants, notably a man called Slade who wrote some articles on Rota's work.



Louis Rota, aged 23 or 25. (Source: <http://tinyurl.com/hx9fzkm> )

Later, after Rota's death, I visited his laboratory, obtained some of Rota's laboratory notes and examined some apparatus. Some years later, I met Rota's son, Daniel, who showed apparatus and notes that I had not previously seen. Using this data and after conducting many experiments over the years, we have been able to piece together to some extent a coherent idea of Rota's discoveries.

Around the time of the end of World War I, Rota discovered a new, naturally occurring, non-electromagnetic energy which he claimed controlled the manifestation of all matter. This energy, which he called "the universal current", flows a few metres below the Earth's surface. The energy flowing within the Earth generates a field in the atmosphere. It was tapped by large, buried, laminated metallic structures which Rota called "blocks".

The energy could light lamps, power machines, inhibit electromagnetic propagation such as radio waves, and stop or control electromagnetic induction. The energy could also develop antigravity effects and is involved in the life process.

Rota maintained that all matter is made of condensed universal currents and that any metal could be slowly dissolved, releasing the condensed universal currents from which it was made. The enormous energy developed during the dissolution of matter could be harnessed. The released energy was not in the form of charged particles but in the form of more universal current, which in turn could be converted into electrical energy.

The universal current is generally (but not always) harmless, and although similar in behaviour to electricity it is much more fundamental. Rota understood electricity as a degeneration of the universal current. In short, matter is composed of nothing but universal current and could be decomposed into it.

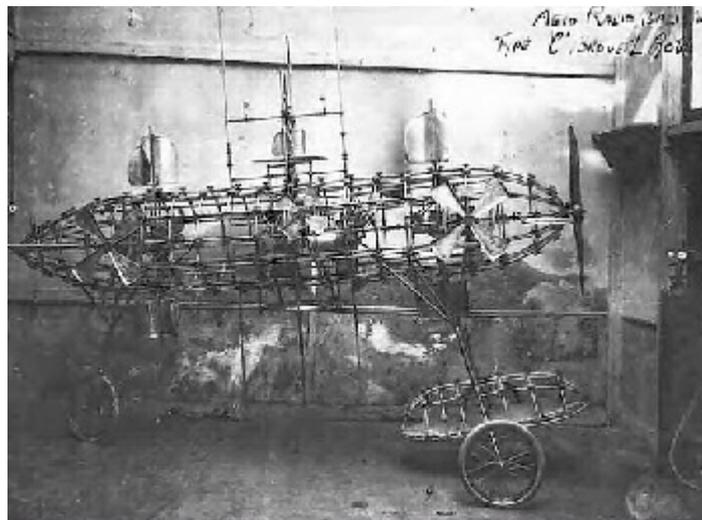
### Early Research

Rota's early interests seem to have been in aviation and possibly early wireless transmission, but there is no information surviving from this period.

At this time (1910-1915), Rota had a laboratory in Marseille and it was there that he devised and experimented on several unusual aircraft which finally resulted in what he called the "Stabilisateur", which he defined as a device that floats weightlessly in the air. Rota claimed: "The device works by opposing the magnetic and electric fields of the Earth, rendering the device weightless.

This claim would at first sight appear impossible. Nevertheless the device worked, and later a version was given a public demonstration and reported in the press at the time. During one of these experiments, Rota touched the Stabilisateur and received an enormous electric shock which rendered him unconscious for 50 minutes.

Rota said that the voltages and currents used in the machine were very small and he could not understand how a potential of such large magnitude could build up. The search for a solution ultimately led him to the discovery of the universal current. This unknown energy, he thought, had amplified the small electric current used in the machine.



The Aéro Radio Balistique, c. 1914. One year after the construction of his Aéro Radio Balistique, Louis Rota became the first foreigner to be accepted into the very secret British Army team working on the creation of mine detectors and early radar. Six years later, he returned to France convinced that he had discovered something more fundamental than some electromagnetic telluric currents. He then designed his Universal Current Disturbance Direction Finder to study these currents. (Source: [wikirota.org/en/Main\\_Page](http://wikirota.org/en/Main_Page) )

Around 1910-1918, Rota, on the suggestion of one of his teachers, seems to have been involved in investigating Earth currents. Lord Kelvin had advanced the notion that due to non-uniformities in the Earth's magnetic field, Earth currents are produced as the Earth rotates in its own magnetic field. Rota's notes of the period show that he thought the telluric currents originated deep within the Earth itself and were not external in origin. In short, he had adopted Lord Kelvin's view.

Rota found that magnetic fields produced by these currents were perturbed by the presence of ships, aircraft, etc. and he used this effect to locate the positions of ships and aircraft at a distance. He took out patents on the associated apparatus [ see <http://tinyurl.com/nmvf5fm> ], and he used a version of it in all his later research.

Although he thought that the magnetic disturbances which the apparatus was detecting were caused by telluric currents, around 1923 he started to change his mind. Sometime later, he finally decided that the apparatus was detecting a much more fundamental energy, of which electromagnetism was a mere by-product. This energy he called "the universal current" because, in his view, it lay at the root of all physical phenomena including the life process.

Although his first laboratory was in Marseille in the south of France, from the early 1920s to the end of the 1930s Rota had a laboratory in northern France near Rouen at Mont-Saint-Aignan. Around the outbreak of World War II, he moved close to Romans, near Valence in the south of France, and set up a new laboratory there. Both the Rouen and Romans facilities were quite large. He was evidently wealthy, his early work funded by a family friend, and it seems that between the wars on at least one occasion he was under contract to the French government.

#### L. G. V. Rota's Theories

- All matter is formed from universal currents.
- Each universal current has its own specific properties. Rota had detected 361 different currents by the time of his death in 1951.
- Every chemical element is constituted of a different group of universal currents; copper, for example, is formed from four such universal currents.
- If an element is exposed to one of its constituent currents, the element disintegrates—not explosively, but gradually or more rapidly depending on the strength of the universal current.
- The constituent currents are held together by a "force of cohesion" which is related to gravitation but, unlike gravity, is polar.
- The huge polar force of cohesion is released when an element is dissolved by a constituent current and can attract or repel ordinary gravitation.
- Electromagnetism is formed of five universal currents held together by the force of cohesion, three for magnetism and two for electrostatic forces.
- Electromagnetic polarity arises from the polarity of the force of cohesion.
- Electromagnetism can be split into its universal current components, releasing the force of cohesion.
- The properties of the universal current are heavily involved in the life process. The life process splits matter into its universal current components.
- Common physical instruments usually cannot detect the universal currents directly; only components bound by the force of cohesion, e.g., magnetism, electricity and momentum, are detected.

(Source: wikirota.org, <http://tinyurl.com/oyagkq4> )

#### My Interest

I became interested in the research of L. G. V. Rota after reading an article on his work in a long-defunct popular fringe science journal called *The Modern Mystic and Monthly Science Review*. The article, titled "Universal Currents", was by a person writing under the pseudonym of "Layman".

The editor of *The Modern Mystic*, A. R. Heaver, knew Layman. It turned out that Layman was a retired geologist by the name of Slade, who got to know Rota well over the years between the wars, and several articles published in the magazine were an educated layperson's account of the bits and pieces of information that Rota had imparted over this period.

When I met Heaver in 1958, *The Modern Mystic and Monthly Science Review* had already been defunct for some 10 years. Also, both Layman and Rota had died, but Heaver put me in touch with Peter Rycott who had been treated by Rota during his childhood and knew most of the people in the area around Genissieux where Rota had his laboratory.

A visit to what remained of Rota's laboratory was organised, and it transpired that some of Rota's equipment was still fairly intact, although some of it had been removed and some dumped in an outhouse used by a local farmer as a shed.

I managed to finance the digging up of one of the many metal blocks that Rota had used to tap the universal current and subsequently brought the block to England for examination.

Some 16 years later, out of the blue, I was visited by a Frenchman, Guy Leblond, who knew about L. G. V. Rota and informed me that Rota had a son. Shortly afterwards I met Rota's son, Daniel Rota, in Saint-Malo in northern France. Daniel Rota was only a small boy when Rota died and he knew that his father had made some important discovery, but not being a scientist he understood little about it.

However, in the intervening 16 years since I visited Rota's laboratory, Daniel had brought most or all his father's papers and laboratory equipment to his then house in Saint-Malo. He allowed me to see and photograph the equipment [examples are shown on the [wikirota.org](http://wikirota.org) website].

Sometime later, Guy Leblond unexpectedly visited me with a piece of Rota's equipment that I had not previously seen. Leblond said it was called the "Transducteur". It could be a device for amplifying the universal current sufficiently so it could be heard without electronic aid, since Rota invariably used headphones and even galvanometers to detect it.

### **Background**

Natural electric currents called "telluric currents" were well known to 19th-century scientists. These electric currents are due to induction from disturbances of the Earth's magnetic field caused by solar flares and storms. Magnetic storms induced quite heavy electric currents in the Earth's surface, and while they lasted they blocked telegraph transmission.

The sensitivity of the apparatus of the time to disturbance was due to the use of an earth return in the telegraph circuit. The earth return consisted of large buried metal plates, one at each end of the circuit.

The telegraph circuits stretched sometimes 100 kilometres in length, and consequently magnetic fluctuations due to solar magnetic storms would induce currents in the overhead wires, causing spurious telephone/telegraph signals. Magnetic devices such as electrical transformers, relays, etc. would saturate.

On some occasions, the electric currents would reach formidable levels. It is likely that the disturbing currents which existed in telephone wires and the rather strange behaviour of these disturbances interested Rota and led to his research.

(Source: [wikirota.org](http://wikirota.org), <http://tinyurl.com/z2ro5qy> )

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### **Layman's Articles on Louis Rota and His Work**

Michael Watson's Note: Layman wrote several articles about Rota's work. Having seen Rota's own notes, I can confirm that Layman's articles paint a fair picture of Rota's claims and, though general, are not exaggerated. These articles, published in *The Modern Mystic and Monthly Science Review* in 1945-46, have been condensed into one.

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### **NEXUS Editor's Note:**

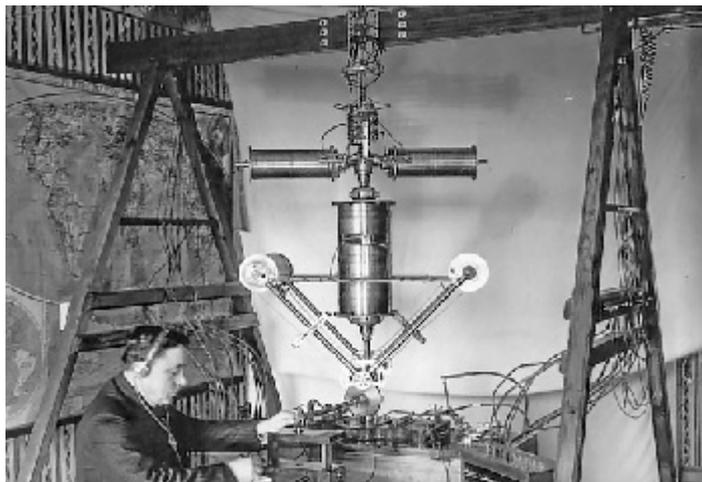
The following compilation from Layman's articles has been edited for publication here.

### **Universal Currents and Cohesion**

It was in 1922 that the writer of these reminiscences first made the acquaintance of Rota.

In the early stages of this acquaintanceship, Rota was very secretive and used to speak of his "secret" which he said he would never impart to anyone—unless, as he hoped, he had a son who could follow in his footsteps one day. He seemed more than afraid that this secret would be discovered elsewhere, saying that if it were given to the world, the world would destroy itself.

As the years went by, however, and after he candidly admitted he had been working on an erroneous hypothesis regarding the origin of these currents, Rota became more communicative and eventually published in French a small brochure, of which his article in the July 1945 issue of *The Modern Mystic and Monthly Science Review* was a summary.



The Universal Current Disturbance Direction Finder in action. Rota nicknamed this apparatus La Cage à Moineau (literally "The Sparrow Cage") because listening to the universal currents with the headphones connected to this machine was like listening to birdsong, as if several birds were prisoners inside an unusual cage. (Source: <http://tinyurl.com/j6kt96c> )

Rota was always very sensitive, too, of being scoffed at, as indeed he sensed he was; thus he would not at all come out into the open until there was at least some irrefutable evidence that he was neither a charlatan nor a lunatic.

The most one ever got out of Rota at first was that these currents had an earthly origin and manifested in the abstractions we know as light, heat, electricity, magnetism and gravity. Subsequently, he never referred to gravity but substituted "universal attraction" and sometimes "universal cohesion".

He always regarded gravity as a force which could be controlled, but said little of magnetism. As Solomon remarked, "Everything goes in pairs", i.e., masculine and feminine manifesting positive and negative polarity as with electricity, the plus or minus of a pendulum in action, etc. Hence if gravity is regarded as positive, there must be a negative form. Herein lies the clue to what we know as atomic weight.

### **Composition of Metals**

Later, when he had seemingly become more familiar with these currents, Rota used to assert that one day the composition of all metals (and presumably of other things) would be expressed wholly in terms of these currents.

Also, several examples of what was regarded as a single metal were actually composed of two and sometimes more unknown metals. These perhaps are what today are called "isotopes". He always insisted on extreme purity in the several metals used in his plant and apparatus.

This purity seems to be as vital to his work as it is in developing spiritual power. He also used to explore Newton's theory, but admitted the arithmetic of it. Likewise atomic theory: he frequently said that if you split the atom, "You annul everything". By inference, the power lies not in the atom but externally to it.

A physicist speaking a year or two before the war at a September meeting of The Royal Society put forward a similar thesis, and in the October 1945 issue, page 88, of the Society's journal, Mr Annesley Voysey, questioning the accuracy of scientific theory regarding the explosive power of the atom, wrote:

"Can we regard it another way as a local diminution of velocity in the cosmic energy, which thus suspends its penetrating power and blows everything to pieces?"

This would seem to be in accord with Rota's view. Since the penning of the foregoing, the American account of the development of the atom bomb, published by H. M. Stationery Office, mentioned frequently the "binding force of the nucleus", which is significant.

Rota's successful debut at Marseille made him confident of being able to fulfil his undertaking. To the writer's knowledge, he had begun the construction of at least three such machines, if they can be so called, and parts of the second were and possibly still are in London. These machines were all begun before he realised that his original hypothesis (though not his data) was wrong. Later, he was absolutely sure he could complete the construction but knew it would require capital.

### **Earthquake and Weather Predictions**

At this time, Rota used to predict earthquakes accurately, and he showed an uncanny knowledge.

In those days, aeroplanes were primitive and made test flights and distance-record flights. The courses that today would be regarded as of no interest were well publicised in advance in the newspapers.

Often Rota would write to the press to say that if the path on that particular day was adhered to, the aircraft would crash. After he had, unfortunately, been proven right, his warnings were no longer ignored: it was noticed on future occasions that the flight would be postponed or the course altered after his warning had appeared.

Regarding the weather, Rota used to say: "Give me one hundred men to do the calculations and I could predict the weather above every hundred square miles on Earth." Was this humbug or hallucination? The question arose in the minds of his best friends.

Well, from the writer's personal experience, in the middle of March 1924, Rota, a friend and the author [Layman] were driving in a taxi to lunch at a well-known restaurant when the friend said: "When is this miserable weather going to stop?"

It was a gloomy spring, with heavy rain or bad light for days and no sun for weeks. Rota fished out a pencil and on a starched cuff proceeded to do some calculations using the hieroglyphics he always employed, and in less than a couple of minutes said: "It will be here until 20th May."

The dull, cheerless weather continued until the afternoon of that day when a warm, genial sun emerged, flooding the landscape, and the change could be felt. From then onwards, it was good weather.

On another occasion, three gentlemen and the writer were taking leave of Rota on 1st September 1927 when the writer, on shaking his hand, said: "I'll come and see you again, at the end of November or beginning of December, either on my way back from Spain."

"What! If you go to Madrid, get back to Hildenborough before 23rd December or you will not spend Christmas with your family." What did he mean? Was there going to be a bad earthquake?

The Lisbon disaster came into his mind, Rota said. "Very bad weather for Christmas; the storm is here now." He then went on to say that the storm was already brewing north of the Azores.

Towards the end of November 1927, the writer was again on his way to Madrid and asked about the storm. Rota said: "Terrible! Terrible! Worse than I thought! The cold will begin tomorrow." He was unconcerned by the current warmer weather. However, on 22nd December (the writer returned on 19th December), the warmer weather was followed by blinding sleet with 100 kph gales, quickly changing to snow for another five days.

Numbers of cars were buried and were not dug out for a month, and many big telegraph poles were snapped like matches. Kent and Sussex were marooned for days. For some four or five days, no ships crossed the Channel from noon of 23rd December.

A man able to forecast the weather so far ahead has knowledge denied to those of greater scientific renown.

This article is written at the request of the editor for the benefit of those whose interest and hopes have been stimulated by the articles in the July, September, October, November and December [1945] issues of this journal [The *Modern Mystic and Monthly Science Review*] under the titles of "Universal Currents" and "Cosmo-Dynamism" regarding the work of Luigi G. V. Rota.

The author has had no contact with Rota since 1940. Readers of these two exposes will no doubt have grasped Rota's theories regarding procreation, and that a healthy life depends upon the intensity and density of those dominant universal currents in the make-up of individuals from the moment of their conception.

A certain amount of repetition in introducing the subject is unavoidable, but let it be emphasised that according to Rota:

- (1) The impacts and direction of these currents upon the Earth do not change;
- (2) These currents have been the same from the beginning;
- (3) These currents vary only in intensity and density, at some periods hourly. They may be strong in one area and weak in another at the same time.

Early on, Rota believed that these currents had their origin in the Earth and so called them "telluric".

### **Therapeutic Currents**

Rota's failure to realise his then ambition for a demonstration that would satisfy any layperson of the existence of

these currents led him ultimately to conclusions which were all embracing in their scope— among other things, in the field of therapy. In this field, he has shown tangible evidence.

His method, expressed quite simply, is to supply the patient with the "dominant" current and to some extent with a blend of the currents which constitute his physical and spiritual make-up.

There are two alternatives: one is to send the patient to live in a locality where his or her "dominant" or life current is strong and certain to remain so for some time; the other is to manufacture a multimetallic "block" able to retain these life currents with the required intensity and density.

To do so, he has to strike a balance between the dominant but innate currents in the metals composing the block. More than this, however, he has to take into account the dominant and permanent currents pertaining to the place where the patient resides and allow for their behaviour during the next few months or years.

Some have to be counteracted, some intensified. The manufacture of a suitable block is therefore a matter of very exact calculation and is obviously abstruse. It is thus too costly a treatment to administer unless the patient is going to live a long while in the same locality.

Notwithstanding this, in the interest of science Rota was doing this work for virtually nothing. However, he was being financed in 1936-41 by a gentleman, a French Anglophile, who died in the second year of the war.

Beyond the making of suitable blocks lies the "harmonisation" of their component metals, which is done in his installation in France. This harmonisation Rota called "synchronisation", but he says that it is not the right word and that a new word is required to describe the whole process.

The work is done by Nature. That is, these therapeutic blocks are connected to several large blocks buried at varying depths in the ground over a large meadow behind his laboratory.

These buried blocks are in some cases of a single metal, and others are composed of several metals in layers. They vary much in size and weight and all have several leads going into his synchronisation room. Their number and variety make a great many combinations of currents possible. Rota asserts that these buried blocks grow in power with every year that passes, but this does not allow the synchronising to be done any more quickly.

### **A Passive Radar Concept**

Another subject relates to flying altitudes. Rota had assured certain military friends that it was impossible for aeroplanes to fly above a certain height over an historically famous frontier region except on 20 or 21 days of the year. In other words, except on those exceptional days the aeroplanes would be well within range of the guns. Tests were made by the military, and Rota's warnings were proved correct.

Thanks to these results, Rota was employed for some months to carry out a survey of all the borders of the country, for which he was paid well. Because of remarks he'd made regarding the location of minerals, Rota was also employed to locate the positions of arms and munitions depots over the border in foreign territory.

Their positions he had already closely approximated by their reactions on his recording apparatus at the installation. For exactness, however, Rota postulated that he must follow the border with certain other portable apparatus—all, incidentally, unaided by electrical impulses. So it was arranged.

Rota's readings confirmed the positions of certain depots already known to the military and located several others besides. This all seemed excellent to the soldiers until someone remarked that if he could locate these, then he should be able to spot the French depots as well.

"*Surement!*" said Rota, proceeding to indicate the whereabouts of some. This caused momentary consternation among the military, who thought they were betraying military secrets.

A few years prior to these happenings, Rota, with such apparatus as he then had, was able to follow the Italian general Nobile's flight to the North Pole. He had in fact plotted his route and indicated the spot where the dirigible had grounded long before the latitude and longitude of the scene of the disaster had been determined.

About October 1939, Rota informed the writer by letter that he had good reason to suppose that a secret enemy wireless station was operating in a certain part of these islands. This was duly reported to the proper authority, who asked if it was possible for Rota to give the exact position.

Now, because of the war, Rota had dismantled all of the overhead lines across his meadow surrounding the installation until it appeared again to be just the innocent paddock of a farmhouse. To supply the information, therefore, he had to re-erect all these aerials, which he did.

About three weeks later, he gave precisely the latitude and longitude of the spot; moreover, a week or two after

that, he reported that he had located two more, eventually pinpointing these in the same way. These stations were still functioning when correspondence with Rota ceased with the invasion of the Low Countries.

What is of significance, however, is what Rota had to say about these stations.

First, he maintained that they were transmitting by means of some wholly new principle of wireless, not by electrical impulse.

Second, that the transmitters were situated on the sea coast yet in water about 65 metres deep.

Third, that they were transmitting only in one direction.

Fourth, that these transmissions could be picked up by submarines and that only if the submarine surfaced and relayed them by ordinary wireless to another submarine on the surface or to an aeroplane could the messages cross land. The sea was the medium.

Here were a number of mystifying statements, which in those days might well cause scepticism and consternation. He had arrived at these conclusions just by listening without the help of electrical amplification.

What led him to make these deductions? Primarily, it was his conviction that all metals have direction. The writer has always assumed this direction to be that of the dominant current which creates their respective substance. It will be remembered that, according to Rota, all crystallisation originates from these currents and they are constant in their direction.

Rota's own belief was that the Germans had made this discovery in respect of one metal only and that by some fluke they had "synchronised" this one metal and were making use of the energy so "attracted" to transmit with.

Pondering over the matter, it appears probable that these transmitters in Britain were designed to react to certain weather conditions, so giving the Germans information vital for weather forecasting.

Outside Britain it may have been otherwise and the spoken voice may have been transmitted by the same natural energy, if indeed the transmitting force was such and not electricity. In the latter case, the British "sonobuoys" which automatically informed aeroplanes of the whereabouts of submarines would represent a parallel.

Doubt as to whether or not the Germans had stumbled in part upon Rota's discovery that metals have "direction" and were using just one metal as a carrier wave arises from a warning given to the writer by Rota in November 1939.

He said in effect: "If the Germans have made this discovery, then it should not take them long to achieve another short step forward when they would have at their disposal a means of destroying all the electrical generation plants in Great Britain and she would be helpless."

Seeing that the only damage sustained by generating stations was from bombs and incendiaries, was he right in his first assumption concerning these clandestine stations with which the Germans were equipped at the outbreak or hostilities? If he was right, then the Germans had failed to take the extra step referred to.

Certainly during the first six months of the war, they seemed to have information of various happenings almost as soon as they had taken place.

Was this by means of normal wireless portable transmitters or by means of such non-electrical apparatus, as Rota visualised from just listening? The last two words may provide the answer, for his claim was that only he had the means of listening beyond what the Germans themselves had.

(Source: <http://tinyurl.com/obuk4nl> )

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## CONTINUOUS CREATION FROM ELECTRIC PLASMA VERSUS THE BIG BANG UNIVERSE

by Mae-Wan Ho, PhD  
 Institute of Science in Society © 2013

The Big Bang Universe, 95 per cent unobservable in hypothetical dark matter and dark energy, is giving way to one alive with electric plasma currents accumulating mass and transferring energy over galactic and intergalactic space in a cosmic extravaganza of constant creation.

### How Our Universe Developed

Imagine the moment our human ancestors first lifted their eyes to gaze deep into the night sky; that must have been the very moment that art/myth/religion/science was conceived. Cosmology, the quest for the origin and development of our universe, has held our fascination and imagination undiminished ever since.

Some would argue that the currently dominant Big Bang scientific theory of the universe has strong elements of mythology if not artistic verisimilitude<sup>1</sup>, and it is being defended by an establishment with a zeal bordering on blind faith and religious fervour.

So much so that 34 eminent scientists from 10 countries around the world were moved to sign an open letter criticising the establishment, calling for openness and funding to investigate the validity of Big Bang and its alternatives, among them Steady State and Plasma cosmologies.<sup>2</sup>

### The Big Bang Contradicted

The Big Bang cosmology was developed on features of the universe that could be seen with telescopes through light emitted in the visible part of the electromagnetic spectrum, a narrow band less than one octave wide with wavelengths between 390 and 700 nanometres.

Since the 1970s, space research has extended the acquisition of data over almost the entire electromagnetic spectrum spanning 73 octaves from gamma rays, X-rays and ultraviolet rays at the very high energy end to infrared, microwave and radio waves at the other.



Figure 1: Sample of telescopes (operating as of February 2013) at wavelengths across the electromagnetic spectrum. (Source: NASA)

This opened up a vast panorama that we could only peek at previously through a slit in a black cosmic curtain. Before our far- and wide-reaching telescopic eyes (figure 1), an extravaganza in the entire electromagnetic spectrum is unfolding in universal space-time. X-ray bursts, the most energetic events, change their output by orders of magnitude in seconds or milliseconds, some  $10^{10}$  times faster than those in the visual range.<sup>4</sup>

These observations posed immediate problems for Big Bang cosmology. "Parameters" were added to create the

*Lambda* Cold Dark Matter cosmology, also known as the Standard Model (of the universe)<sup>5</sup>: the "simplest model that provides a good match" (retrospectively) to observations including the cosmic microwave background and the accelerating expansion of the universe observed in the light from distant galaxies and supernovae.

The expansion of the universe is inferred from the amount of redshift in the light coming from astronomical objects.<sup>1</sup> Redshift happens when light from an object moving *away* from the observer is increased in wavelength or shifted to the lower energy end of the electromagnetic spectrum.

American astronomer Edwin Hubble (1889-1953) discovered that the redshift of a galaxy increases with its distance from the Earth, implying that the universe is expanding. A linear relationship between redshift and distance holds below a redshift of 0.1.

For distant galaxies and supernovae, however, the light emitted is too faint, implying that they are more *distant* than expected and hence can only be explained by an "accelerated expansion".<sup>6</sup>

*Lambda* stands for the cosmological constant, the value of the energy density of vacuum space, also known as dark energy—a hypothetical entity needed to explain the accelerating expansion of space against the attractive (collapsing) effects of gravity due to matter. Currently about 68.3 per cent of the energy density in the universe is estimated to be "dark energy".

"Cold dark matter" is a form of hypothetical matter needed to account for gravitational effects observed in very large scale structures, such as the rotation of galaxies, and enhanced clustering of galaxies that cannot be accounted for by the quantity of observed matter.<sup>1</sup>

Cold dark matter consists of matter other than protons and neutrons in ordinary matter; it does not dissipate or collide, and it interacts with other particles or matter purely through gravity. Dark matter currently accounts for an estimated 26.8 per cent of the mass-energy density of the universe. This leaves 4.9 per cent ordinary matter.

By definition, dark matter and dark energy cannot be detected and are no more than hypothetical parameters invented to save Big Bang cosmology. Additional problems arise in equating redshift with recession and distance from Earth.

Astronomer Halton Arp [1927-2013] was Edwin Hubble's assistant early in his career and worked for years at the Mt Palomar and Mt Wilson observatories where he developed his famous "catalogue of peculiar galaxies".

Arp discovered that many pairs of quasars (quasi-stellar objects) that have extremely high redshift  $z$  values and therefore are thought to be receding from Earth very rapidly and extremely distant from us are physically connected to galaxies that have low redshift and are known to be relatively close by. Arp had many pairs of high-redshift quasars symmetrically located on either side of what he suggested are their parent low-redshift galaxies.<sup>7, 1</sup>

According to Arp, the observed redshift value of any astronomical object is made of two components: the *inherent* component (due to the plasma) and the *velocity* component.

But the velocity component is the only one recognised by mainstream astrophysicists (which leads to all kinds of paradox concerning distances, age of the universe and accelerated expansion of the universe). Arp said that high redshift is a sign of youthfulness rather than age, and further showed that the inherent redshift values of quasars appear to be quantised, i.e. existing in definite jumps.

The mainstream ignored Arp's observations and tried to explain them away as "illusions" or "coincidences of apparent location". Arp was systematically refused telescope time and denied publication of his findings, which appeared in his book *Seeing Red: Redshifts, Cosmology and Academic Science*.<sup>8</sup>

Arp was not alone among the silenced critics of Big Bang cosmology. Physicist Ari Brynjolfsson [1927-2013] proposed a theory of intrinsic redshift based on the density of the plasma involved.<sup>9-11</sup> This, too, fell on deaf ears.

### **Electric Plasma Universe**

The new Plasma cosmology is based largely on electromagnetic forces—up to 39 orders of magnitude stronger than gravity—and has no need for dark matter or dark energy.

Plasma is a conglomerate of charged particles that respond *collectively* to electromagnetic forces.<sup>4</sup> It is considered a fourth state of matter distinct from solid, liquid and gas. Plasmas can be created and studied in the laboratory, and their properties can be scaled up over many orders of magnitude.

Swedish plasma physicist Hannes Alfvén (1908-1995), awarded the Nobel Prize in Physics for his work on the dynamic behaviour of electrically conducting fluids including plasmas, was a pioneer proponent of the Electric Plasma Universe.<sup>4</sup>

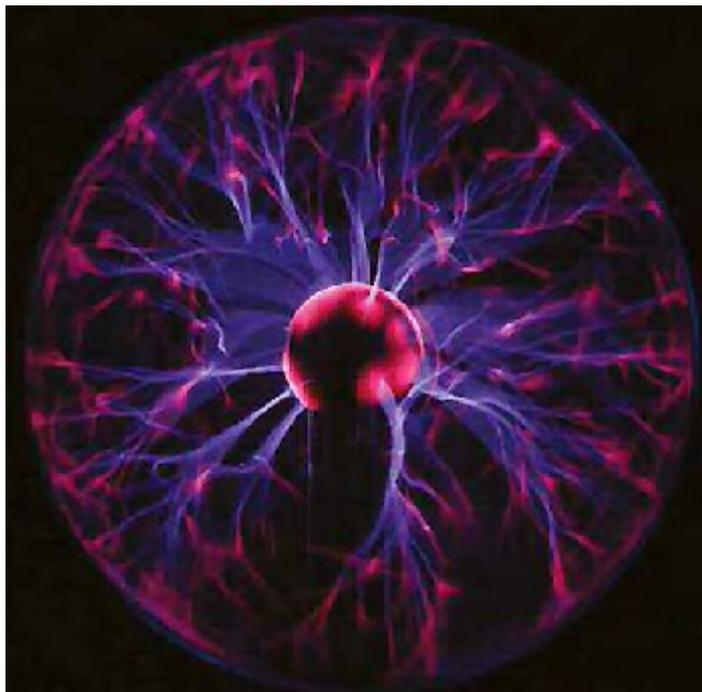


Figure 2: Small plasma lamp with central cathode surrounded by an excited spherical current sheet attracted to the outer glass shell (anode). Filamentous structures form as the current sheet propagates through the low-pressure medium within the lamp. (Source: Luc Viatour, <http://www.lucnix.be> )

He was the first to point out that X-rays and gamma rays detected by the special telescopes orbiting in space are produced by magnetised plasmas. Magnetised plasmas, especially in connection with double layers (of positive and negative charges) and a magnetic-field-aligned electric field (see later), accelerate electrons streaming from the Sun to some  $10^3$  electronvolts (eV) to create the auroras at the poles. Solar flares produce electrons with energies of  $10^9$  to  $10^{10}$  eV. Under cosmic conditions, even higher energies are possible.

High-energy magnetised plasmas emit not only X-rays and gamma rays but also synchrotron radiation (a continuous band of polarised radiation emitted by charged particles spinning in a magnetic field) that often falls in the radio bands. Hence, radio astronomy also gives information about the Plasma Universe.

The universe is 99.999 per cent plasma. It is alive with electric plasma currents accreting and concentrating mass and transferring energy over galactic and intergalactic distances, organising space into cells surrounded by sheets and filaments of plasma bounded by electric double layers.

The circuit paths are closed, sometimes over very large distances. Plasmas in relative motion in one part of the universe can produce prodigious amounts of electrical energy, and the energy transferred over many billions of light-years can suddenly burst from a very small and localised region.

Both in the laboratory and in the solar system, filamentous and cellular morphology is well known for plasma (figure 2). In the 1980s, unexpected filamentous structures turned up on galactic, intergalactic and supergalactic scales.

### Field-aligned Birkeland Currents

Along the boundaries between cells, filaments and sheets of plasma organise into Birkeland currents, named after Norwegian scientist Kristian Birkeland (1867-1917) who deduced at the beginning of the 20th century that the flow of electrons from the Sun is the source of the Northern Lights.<sup>13</sup>

Magnetic-field-aligned electric (Birkeland) currents were discovered in the Earth's magnetosphere in 1974, and auroras are now attributed to the filamentation of charged plasma sheets following the Earth's magnetic field lines into vortex-current bundles.

Birkeland currents exist also on the galactic and supergalactic scales and are very effective at aggregating matter. They interact to form systems of galaxies, according to [Hannes Alfvén *et al.*<sup>15</sup> and] Anthony Peratt<sup>16</sup>, plasma physicist at the Los Alamos National Laboratory, New Mexico, and a leading proponent of the Electric Plasma Universe cosmology.

Birkeland currents in astrophysical plasmas with dimensions ranging from  $10^2$  to nearly  $10^{21}$  metres are thought to

carry currents of  $10^5$  to  $10^{19}$  amperes. The entire filamentous circuit is expected to be hundreds of megaparsecs long, with complex patterns of fields and currents. (A parsec is an astronomical unit equal to 3.26 light-years or  $3.08567758 \times 10^{16}$  metres, so a megaparsec is 3.26 million light-years.)

Galaxies form along the filaments, and this explains the chains of galaxies that seem to be linked like pearls on a string. Large masses of galaxies also formed along the original plasma cell boundaries, accounting for the "Great Walls" and the grand sheets of galaxies that have been observed.

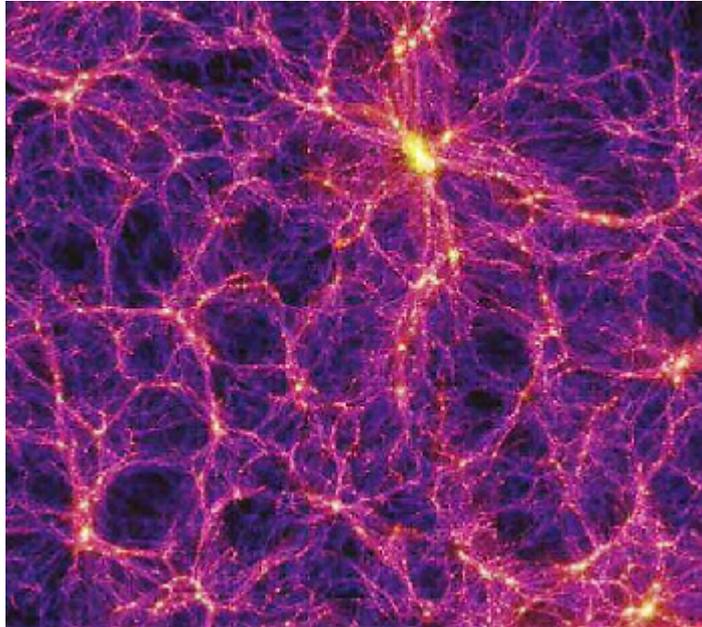


Figure 4: Section from the map of the universe. (Source: Max Planck Institute for Astrophysics<sup>18</sup>)

Notably, a three-dimensional "map of the universe" constructed on supercomputers by the Virgo Consortium (figure 4 above) shows filaments stringing galaxies and walls of galaxies surrounding cells precisely in the manner predicted by the pioneers of the Electric Plasma cosmology more than 35 years ago.<sup>4, 17</sup> But the map of the model universe is attributed to the special distribution of dark matter and dark energy.<sup>18</sup>

Electromagnetic and electromechanical forces are enormously stronger than gravity; they can collect and compress matter much more efficiently than can gravitational forces. They account for the map of the universe without invoking dark matter or dark energy.

Once matter is sufficiently compressed and neutralised by recombination of ions and electrons, then electromagnetic forces may be reduced to the point that gravity becomes significant and continues the compression.

Birkeland currents not only explain the formation of galaxies: they could also account for the non-random distribution of elements in the cosmos through a process of electrical sorting known as "Marklund convection".

### Plasma Universe Galaxy Formation

Peratt developed a model of how galaxies form by studying the interaction between galactic-dimension Birkeland currents and using supercomputers to simulate a local fraction of the complete circuit that interacts with a local region in a neighbouring filament.

Parallel axial currents within the filaments are *long-range attractive*, while circular helical currents within the filaments are *short-range repulsive*.<sup>13</sup>

If the axial currents are able to bring the filaments close enough together so that the repulsive component of the Lorentz force (the force exerted by a magnetic field on moving electric charges) becomes important, the circular currents repulse and brake and they release energy in the form of synchrotron radiation.

This is the beginning of galaxy formation, as first described in detail in two papers published in [1976 and] 1986 [Alfvén *et al.*; Peratt].<sup>15 16</sup>

The plasma simulations were able to replicate the evolution sequence from double radio galaxies and quasars to

peculiar and elliptical galaxies and spiral galaxies starting from pairs of interacting Birkeland current filaments (figure 6) as well as other galactic features such as jets.<sup>19</sup>

As explained succinctly and clearly in a posting by Stephen Smith of The Thunderbolts Project:<sup>20</sup>

"The two Birkeland filaments (also concentrating matter within their magnetically pinched volume) torque around each other, changing the morphology of the core plasma (flattening the ellipse) and eventually evolving into trailing arms as electric current, axial to the arms, flows into the core of the galaxy. At that point the two Birkeland filaments merge with the core. So the core of a galaxy derives from whatever intergalactic plasma was trapped between the two (or more) Birkeland filaments and the arms of the spiral derive mostly from the pinched Birkeland filaments themselves.

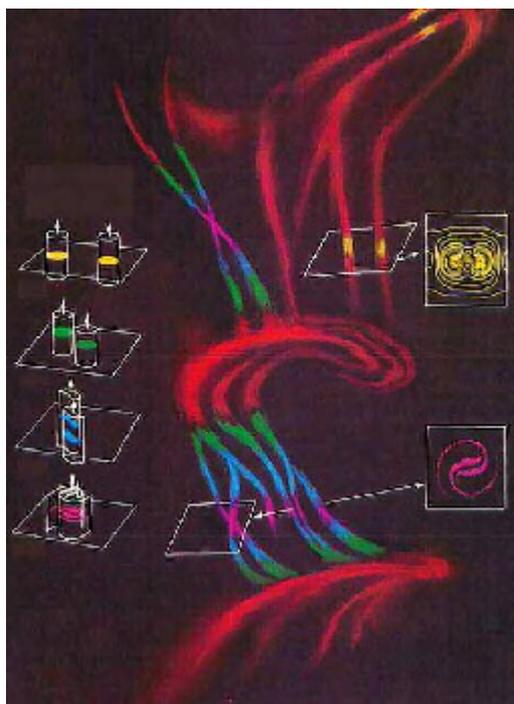


Figure 6: In the Plasma Universe, swirling streams of electrons and protons form Birkeland filaments; the particles gain velocity, indicated by the colours, and at narrow-pinch regions produce the full range of galaxy types as well as the full spectrum of cosmic electromagnetic radiation. (Source: Modified from Peratt, 198919 )

"The rotating Birkeland filaments impart the initial rotational momentum to the galaxy-sized plasma structure. As the charged plasma structure rotates, there arises a concomitant magnetic field with a typical dynamo' signature.

"Current continues to run through the galaxy along the equatorial plane as part of a larger intergalactic circuit. This current as it passes through the magnetic field mentioned above drives further rotational energy as the galaxy responds as a homopolar motor. This is what drives the anomalous' rotational velocities observed in the outer parts of galaxies.

"Further magnetic fields arise in the galaxy as a result of the intergalactic currents running in along the equatorial plane. The currents running radially along the equatorial plane create local magnetic fields that squeeze the plasma into Birkeland filaments. This brings definition to the spiral arms. Further filamentation and higher current densities power star formation in the spiral arms."

### **The Cosmic Microwave Background**

Unexpectedly, Peratt discovered from his simulations a background of microwaves with an energy density very nearly the same as the cosmic microwave background (CMB), which has been deemed the single most important confirmation of Big Bang cosmology.

In the laboratory, a filamentous plasma or electron beam that does not produce microwaves is unknown, which is why it has been necessary to absorb the microwaves for safety reasons.

The distribution of radiation energy of the Plasma Universe was not calculated until six years after the simulations began. The result was "startlingly close" to the CMB.

In an infinite universe of plasma filaments, the microwave background from synchrotron sources would necessarily be very smooth, without the need for a Big Bang.

**Editor's Note:**

This article by Dr Mae-Wan Ho is extracted and edited from the Institute of Science in Society's Report of 11 November 2013, published in *Science in Society*, No. 60, Winter 2013. The full article (minus endnotes, which are accessible only to members) is available at <http://tinyurl.com/hcbphjx>  
For more information and articles, visit the website <http://www.i-sis.org.uk>

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# Giants on Record

## Hidden History of the Americas

Reports of living giants and tall skeletons are part of the historical record of the Americas. It's believed that the Smithsonian Institution received physical evidence of giants on many occasions but went out of its way to cover up an inconvenient truth.

by Jim Vieira and Hugh Newman

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Edited from an introduction to their book *Giants on Record* (Avalon Rising, UK, 2015)

The Iroquois, the Osage, the Tuscaroras, the Hurons, the Omahas, and many other North American Indians all speak of giant men who once lived and roamed in the territories of their forefathers. All over what is now the U.S. are traditions of these ancient giants.<sup>1</sup>

### Where Are The Bones?

Did giant humans roam ancient America? Did the Native Americans have a royal class of giant rulers who, upon death, were entombed in massive burial mounds? The historical record certainly seems to support these suggestions.

Over 1,000 accounts of seven-foot [2.13-metre] and taller skeletons unearthed from ancient burial sites have been reported over a 200-year period in America. Newspaper accounts, town and county histories, letters, scientific journals, diaries, photos and Smithsonian ethnology reports have carefully recorded these finds.



A selection of news accounts featured in *Giants on Record*.

These skeletons have been described from coast to coast in burial chambers, stone crypts, caves, ancient battlefields and massive mounds. Strange anatomic anomalies such as double rows of teeth, jawbones so large as to fit over the face of the finder and elongated skulls have been documented in virtually every state.

Smithsonian scientists in their annual reports identified at least 17 skeletons that stood at over seven feet tall, including one example that was eight feet 1.5 inches [2.5 metres] tall, and also a skull with a 36-inch [91.44-centimetre] circumference (an average human skull is about 20 inches [50.8 cm] in circumference).

The Smithsonian Institution is mentioned dozens of times as the recipient of enormous skeletons from across the entire United States.

In late 2014, an article from a satirical website claimed that a Supreme Court ruling had forced the Smithsonian Institution to admit to the historic destruction of giant skeletons.

It was published not long after our *Search for the Lost Giants* TV show aired on History [formerly The History Channel]. The headline read: "Smithsonian Admits to Destruction of Thousands of Giant Human Skeletons in Early 1900s".<sup>2</sup>

Right away, we were inundated with emails from people believing the story was real. If such a story were true, it would surely be front-page worldwide news.

However, when an Internet post is mentioning a startling find and not verifying any of the professionals involved, or real organisations or institutions they belong to, you can quickly conclude it is a misrepresentation of facts or an outright lie. Maybe someday, however, the Smithsonian will admit to the irony of this story.

The overwillingness to believe seems to be the culprit for such stories gaining life. This is the reality we've had to deal with in researching the strange cases of the North American giants, as hoaxes and exaggerations were often reported as the truth. This is further complicated because of the lack of physical evidence and the moral and ethical implications of investigating human remains.

When the Native American Graves Protection and Repatriation Act (NAGPRA) was passed in 1990, any remaining giant skeletons and bones were removed from public display and buried according to the traditions of individual tribes.

We are often asked, "Where are the bones?"—and we reply, "Ask the Smithsonian and the Native Americans."

Even with these obstacles, we have done our best to chase down every account to the end and to be as impartial as possible. The book *Giants on Record* is not trying to be a long scientific paper but, rather, an assemblage of data and documents that have been hidden in libraries and local historical societies and quietly shunned by orthodox anthropology and archaeology for over a century.



Illustration from the *Worthington Advance*, 1897.

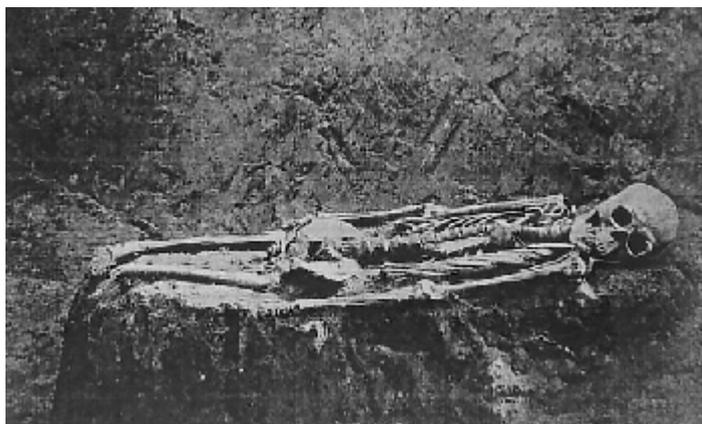
The following accounts are part of this forgotten legacy, with implications that may someday shake the foundations of American academia.

### **The Smithsonian Files**

Most of the reports we have uncovered are from well-known newspapers such as the *Washington Post* and the *New York Times*. However, we begin our analysis with this account from the *Worthington Advance* (18 November 1897, p. 3) that describes the ethnological work of the Smithsonian Institution's Division of Eastern Mounds and quotes the Director of the Bureau of Ethnology at the time, John Wesley Powell. The image at right accompanied the news report.

*It is officially recorded that agents of the Bureau of Ethnology have explored more than 2,000 of these mounds. Among the objects found in them were pearls in great numbers and some of very large size... It is a matter of official record that in digging through a mound in Iowa the scientists found the skeleton of a giant, who, judging from actual measurement, must have stood seven feet six inches tall when alive. The bones crumbled to dust when*

exposed to the air. Around the neck was a collar of bear's teeth and across the thighs were dozens of small copper beads, which may have once adorned a hunting skirt.



Old postcard showing a seven-foot skeleton discovered at the Serpent Mound near Peebles, Ohio. (Source: Postcard courtesy of Jeffrey Wilson )

As part of the *Search for the Lost Giants* show, Jim Vieira and fellow researcher James Clary investigated the following account from the *Steelville Ledger*, Missouri (11 June 1933):

***An Ancient Ozark Giant Dug Up Near Steelville, Mo.*** *Strange discovery made by a boy looking for arrowheads, gives this Missouri Town an absorbing mystery to ponder.*

*...It all came about as a result of Billy Harman's hunt for arrowheads a few weeks ago... [H]e turned up the complete skeleton of an 8 foot giant. The grisly find was brought to Dr. R. C. Parker here and stretched out to its enormous length in a hallway of his office where it has since remained the most startling exhibit Steelville has ever had on public view...*

*...An appeal to Dr. Ales Hrdlicka, anthropologist of the National Museum in Washington and celebrated authority on primitive races, is expected to help. Dr. Parker has written to him, offering to forward the skull or the whole skeleton, if necessary, for scientific study...*

Vieira and Clary found the exact location where the eight-foot skeleton had been removed from along the north wall of a cave. They met with several relatives of Billy Harman who all professed to the legitimacy of the find. They also found where Dr R. C. Parker's office once was, and ran into an old-timer who was a patient of Dr Parker in his youth.



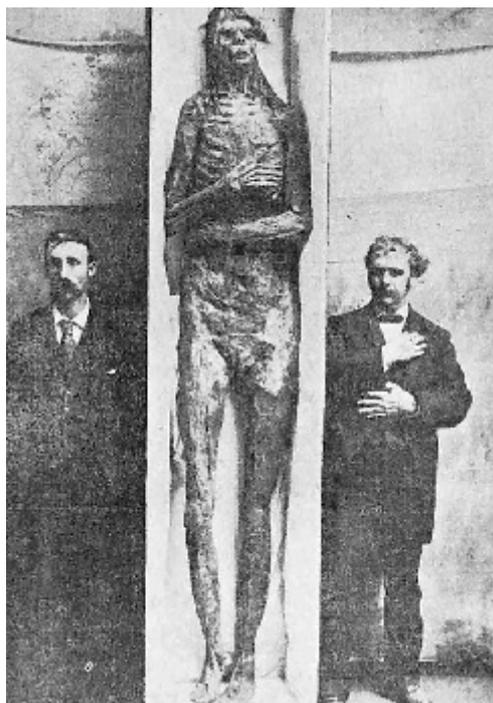
Steelville Ledger photo of six-foot-tall Les Eaton lying next to the eight-foot skeleton in Dr Parker's office.

While reading through the microfilm at the Steelville library, Vieira and Clary uncovered three reports of the find including a photo that shows Les Eaton, a six-foot-tall [1.83-metre-tall] man, laid out next to the eight-foot skeleton in Dr Parker's office (see photograph above).

The *Steelville Ledger* also reported that the skeleton was packed up and shipped to the Smithsonian, never to be heard of again.

The Smithsonian Institution is continually linked to giant skeletons, or at least the lack of them. Most of the reports end in something like this: "The bones were shipped to the Smithsonian Institution for further study."

This ongoing problem of the "missing bones" has become the stuff of legend, as there are dozens of reports that the Smithsonian received artefacts and giant skeletons. Today, it denies they ever existed.



The Smithsonian purchased the nine-foot-tall San Diego giant for \$500 in 1895, but in 1908 claimed it was a hoax. (Source: The Salt Lake Tribune, 7 June 1908 )

We investigate this thoroughly in the book, and conclude that the Smithsonian may have instigated a cover-up in the late 1800s because the findings did not fit in with its new ideologies of "manifest destiny" and "evolution".

Although the giants were sidelined in the early stages of scientific discovery, they were already in the written record thanks to the early explorers of America.

### Early Explorers

As far back as the 1500s, when Spanish navigators were exploring the coast of the Americas, sightings of live giants were being recorded. Three captains of Spanish ships, as well as Sir Francis Drake, Captain John Smith, a Smithsonian professor and several other notable eyewitnesses, reported these taller-than-average native people on their expeditions to America.

On his return from Tampico to the Mississippi, Pineda unknowingly sailed right past a tribe of equally huge Texas Indians.<sup>5</sup> Furthermore, in a report on the Karankawas, John R. Swanton of the Bureau of American Ethnology described the men as follows: "...very tall and well formed. Head-flattening and tattooing were practised to a considerable extent."<sup>6</sup> However, it was also recorded that they "...do not *eat* men, but roast them only, on account of the cruelties first enacted against their ancestors by the Spanish".<sup>7</sup>

In 1523, as the Spanish fleet discovered, dominated and overran the Caribbean Islands, a strange report came forth via historian Peter Martyr who assisted at the Council of the Indies. The account was originally shared by a native who was Christianised and taken to Spain:

*The report ran that the natives were white and their king and queen giants, whose bones, while babies, had been softened with an ointment of strange herbs, then kneaded and stretched like wax by masters of the art, leaving the poor objects of their magic half dead, until after repeated manipulations they finally attained their great size.*"<sup>8</sup>

In early 1521, a secret voyage from Spain was undertaken by Francisco Gordillo and Pedro de Quejo. They sailed over to America and along the Carolina coast to capture Native American slaves and scout out potential locations for new Spanish colonies.

In 1519, Spanish explorer Alonso Alvarez de Pineda was mapping the coastline of the Gulf Coast, marking the various rivers, bays, landmarks and potential ports, declaring that they belonged to the king of Spain. Not far from where the Mississippi River empties into the Gulf of Mexico, he "found a large town, and on both sides of its banks, for a distance of six leagues up its course, some forty native villages".<sup>3</sup>

He also noted that the tribes included a race of tiny pygmies. Pineda described the tribes that settled near the

Mississippi River as a "race of giants, from ten to eleven palms in height, and a race of pigmies only five or six palms high."<sup>4</sup> (*Webster's Dictionary* defines a "palm" used as a unit of measurement to range from seven to 10 inches [17.8 to 25.4 cm], so the giants were at least six feet seven inches [2.0 m] to eight feet tall.)

They managed to capture 70 members of the Chicora tribe to bring back to their homeland.

*The chiefs of the province of Chicora, a portion of what is now South Carolina, were famous for their height, which was supposed to prove their royal blood...*<sup>9</sup>

While Gordillo and Quejo treated the enigmatic Chicora Indians with treachery, their relationship with the Duhare peoples was much more gentlemanly. This was probably because the inhabitants of Duhare were described as looking European, with red or brown hair, tan skin and grey eyes. Strangely, for this part of the world, the men had full beards and towered over the Spanish. They did not appear to be Native American.

Spanish explorer Lucas Vazquez de Ayllon visited many of the Native American tribes in the area and recorded their customs, rituals and ways of living. The report on the Duhare stated:

*Ayllon says the natives are white men, and his testimony is confirmed by Francisco Chicorana [one of the kidnapped Chicora Indians], Their hair is brown and hangs to their heels. They are governed by a king of gigantic size, called Datha, whose wife is as large as himself. They have five children. In place of horses, the king is carried on the shoulders of strong young men, who run with him to the different places he wishes to visit.*<sup>10</sup>

Datha was described by the Spanish as being the largest man they had ever seen. He had a wife as tall as he was. He wore brightly coloured paint or tattoos on his skin that distinguished him from the commoners.

This was all happening at the same time as the Patagonian giants were being witnessed on the southern tip of South America. "Giants" became fashionable in the 1500s. As he recounted in his diaries, Sir Francis Drake made contact with the Patagonian giants in 1578 and in the summer of 1579 witnessed some giants just north of San Francisco.



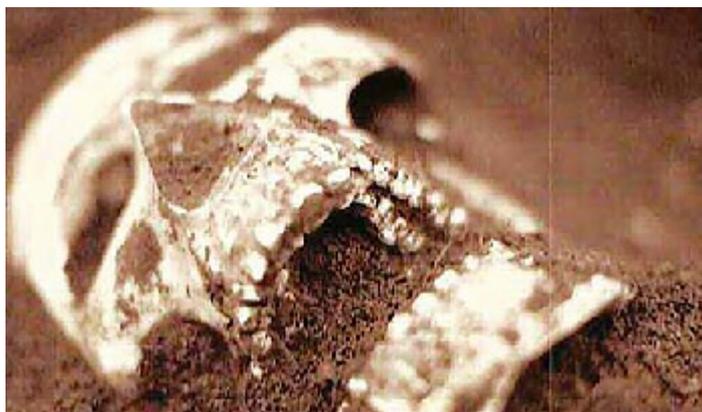
Explorer Dr Frederick A. Cook with two Patagonian giants, about seven feet in height. The photograph was published in the *Virginia Enterprise*, 29 September 1899.

In 1602, the Spanish "discovered" the California Channel Islands, an area that has become a mecca for giantologists. Over 3,000 skeletons were discovered on the islands in the early 1900s. Some of them were between eight and nine feet [2.7 m] tall. Numerous mysterious accounts of skulls containing "double rows of teeth" were also reported.

### **Double Rows of Teeth**

Hundreds of skeletal exhumation reports across the United States have demonstrated some very unusual anatomical features. These include macrocephalic (large) skulls, elongated craniums, enormous jaws that could fit over the face of the finders, and double rows of teeth.

They come from official Smithsonian reports (with one account describing a third row of teeth), newspaper articles, and letters and journals from doctors and respected members of the local community.



Reconstruction of a skull showing apparent double rows of teeth. (Source: Search for the Lost Giants )

The phenomenon of double rows of teeth is what we briefly look at here, as it has been described in multiple accounts. Evidence of this trait goes as far back as 6,000 years in the Canadian Great Lakes area.<sup>11</sup>

**The Scientific American.**

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**NATURAL CURIOSITIES OF CALIFORNIA.**

**GREAT CAVES—SKULLS WITH DOUBLE ROWS OF TEETH.—**  
The Indian skulls with double rows of teeth are said to have been found not only abundantly on San Clemente Island caves, but also often still on the neighboring Island of San Miguel, the San Bernardo or Juan Rodriguez of Cabrillo. Obsidian and all species of silicious stones and rocks are exceedingly abundant in all portions of the Californias, Arizona, New Mexico and Utah, as well as of Mexico, and were used by the Indians for various and useful purposes, as knives, razors, swords.

From *The Scientific American*, vol. 6, 1862, p. 227.

This first account is from the California Channel Islands, reported in *The Scientific American* (vol. 6, 1862, p. 227) (see above image):

*The Indian skulls with double rows of teeth are said to have been found not only abundantly on San Clemente Island caves, but also often still on the neighboring Island of San Miguel, the San Bernardo or Juan Rodriguez of Cabrillo.*

The finds have since been dated to between 3,362 and 8,000 years old.<sup>12</sup>

Vieira uncovered further accounts from the opposite side of the country, in his native New England.

In *A History of Deerfield, Massachusetts* (1895, vol. 1, p. 78), historian George Sheldon wrote:

*...At the foot of Bars Long Hill, just where the meadow fence crossed the road, and the bars were placed that gave the village its name, many skeletons were exposed in plowing down a bank, and weapons and implements were found in abundance. One of these skeletons was described to me by Henry Mather, who saw it as being of monstrous size—the head as big as a peck basket, with double teeth all round'. The skeleton was examined by Dr. Stephen W. Williams, who said the owner must have been nearly eight feet high.*

In *The Story of Martha's Vineyard* (1908, p. 136), Charles Gilbert Hine wrote:

...Some fifteen years ago the skeleton of an Indian giant in almost perfect preservation was dug up in the same locality

[Cedar Neck] the bones indicated a man easily six feet and a half, possibly seven feet, high. An unusual feature was a complete double row of teeth on both upper and lower jaws.

In *History of the Town of Rockingham, Vermont* (1907, p. 338), Lyman Simpson Hayes wrote:

When the earth was removed from the top of the ledges east of the falls a remarkable human skeleton, unmistakably that of an Indian, was found. Those who saw it tell the writer the jaw bone was of such size that a large man could easily slip it over his face, and the teeth, which were all double, were perfect.

In *History of the Town of Middleboro, Massachusetts* (1906, p. 400), Thomas Weston noted:

A few years ago, when the highway was straightened and repaired, ...remains were found... When his skeleton was measured, it was found that his thigh-bone was four inches longer than that bone in an ordinary man, and that he had a double row of teeth in each jaw. His height must have been at least seven feet and eight inches.



Map of New England states depicting tribal territories c. 1600. (Source: Wikipedia)

After looking carefully at all possibilities, the phenomenon of double rows of teeth could be:

- 1) literally two (double) rows of teeth;
- 2) molars and premolars in the front of the mouth resembling "double" teeth—unusual in itself;
- 3) supernumerary teeth that are just occasional "extra" teeth in the mouth, that could be seen as double rows of teeth but not full rows;
- 4) teeth so worn down that only the two roots exist that resemble two separate teeth. Further investigation needs to be carried out before we can understand the origins of these unusual traits. Some accounts could be due to the parlance of the time, but we do find it odd that double rows of teeth are so frequently linked with giant skeletons in the historical record.

### Origins of the Tall Ones

The origins of the North American giants are shrouded in mystery, but we know that these giants were involved in the sophisticated mound-building cultures of the Midwest because royal tombs were often found within the mounds.

There are legends that place them in the era of the megafauna (mammoths, mastodons, sabre-toothed tigers, etc.) at around 13,000 years ago. There are dozens of oral histories that revere them as gods and sometimes as fearsome cannibalistic warriors.

Great wars took place between these titans, and archaeologists have uncovered prehistoric battlefields with oversized bones and weapons. They often possessed double rows of teeth and other anatomic anomalies.

But who really were these people, and where did they come from?

The origins of the North American giants are hotly debated by independent researchers, academics and sceptics, but there is now enough data to begin serious research into the subject. In our book, we cover all the theories of their origins, ranging from the Denisovans of Siberia to the Nephilim of the Bible lands.

There is also compelling evidence that the giants may have originated within the Americas.<sup>13</sup> Hundreds of creation myths and oral histories attest to this, for the giants are in stories from remote times. One example can be found in the writings of Tuscarora Indian David Cusick in his book *Sketches of Ancient History of the Six Nations* (c. 1825-28). He said that when the Great Spirit made the people, some of them became giants. Author Ross Hamilton commented:

*...It seems that the tall people at least shared the status of being the first inhabitants of Indian memory, and that the smaller-in-stature folk lived among or in proximity to them from remotely ancient times.*<sup>14</sup>

However, most people don't believe in giants; instead, they scoff at the idea, saying that it's all just folklore that was mixed up and sensationalised by newspaper journalists.

We disagree, as there is ample evidence within Native American mythology, genetic data, ethnological studies, scientific reports, early excavation records, first-hand accounts and discoveries featured in newspapers and town history books.

Now is the time for academia to take a look at this data and to expose what really happened at the Smithsonian, as an important chapter in human history is on the verge of being lost forever. ^

### **About the Authors:**

Jim Vieira and Hugh Newman have been working together, investigating the megalithic sites of New England and the giants of North America, for four years. They also collaborated on the TV show *Search for the Lost Giants* (History, 2014).

Vieira is a stonemason and writer. In 2012 he created the online blog The Daily Giant, presenting one report on giants per day. The record of his lecture at a prestigious TEDx event was controversially removed (as happened with Graham Hancock and Dr Rupert Sheldrake). He lives in Ashfield, Massachusetts, USA.

Newman is an explorer, antiquarian and author of *Earth Grids: The Secret Patterns of Gaia's Sacred Sites* (Wooden Books, 2008). A regular guest on History's *Ancient Aliens*, he lives in Glastonbury, England, UK. Visit <http://www.megalithomania.co.uk> and <http://www.hughnewman.co.uk>

Hugh Newman is scheduled to speak at the June 2016 NEXUS Conference in Australia.

Vieira and Newman are the authors of *Giants on Record* (Avalon Rising Publications, Glastonbury, UK, 2015; available on Amazon; see review in this issue of NEXUS). They can be contacted at [info@megalithomania.co.uk](mailto:info@megalithomania.co.uk).

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# Kásskara, Sunken Land of the Hopi Ancestors

White Bear, a Hopi elder of the Bear Clan, recorded his tribe's stories about their origins and responsibilities as well as cycles of destruction and migration. He spoke out as a warning for us all about the impending demise of the present Fourth World.

by Shawn Hamilton

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There used to be a fable, commonly imposed as fact on schoolchildren in the United States, that in Columbus' time nearly everyone believed the Earth was flat. Fortunately this untruth has been quietly abandoned, although it has been supplanted by another myth, this one crediting the ancient Greeks with having first disproved the "flat Earth" concept.

History professor Jeffrey Burton Russell noted that with few exceptions "no educated person in the history of Western Civilization from the third century B.C. onward believed that the earth was flat"<sup>1</sup>—a position that is no doubt true yet still reflects a limited Western perspective.

It fails to acknowledge that aboriginal and ancient people, spanning far back into the last ice age, knew the Earth to be spherical. They knew the nature of creation to be cyclical (or vortical), and they acknowledged, revered and cultivated understanding of universal law.

Evidence of their seemingly impossible technological manifestations—the Great Pyramid being among the most widely recognised, with many others gaining attention—lies in ruins around the Earth, the implications largely ignored by experts who can't adequately explain them within academically accepted contemporary models.

The Hopi Indians of the US Southwest, a Puebloan tribe, represent the oldest continuous Native American group in the current United States. Contradicting professional opinion, the Hopi claim they did not come to this continent across the Bering Strait but north from South America, according to Oswald "White Bear" Fredericks, whom I met twice as a teenager through my high school anthropology teacher.



White Bear and his wife, Naomi, photographed in 1985 at their home in Sedona, Arizona. (Source: © Henry Denny )

White Bear (1905-1996) was the primary Hopi consultant for Frank Waters' *Book of the Hopi*<sup>2</sup>, a common title in university libraries. During our current period of history, the Bear Clan supersedes all other clans in authority and serves as the tribe's historians.

It preserves the knowledge and memory of Hopi migrations and history, so White Bear proved to be an unusually valuable source. Even if Western orthodoxy won't accept the truth of his startling claims—that technological civilisations have previously arisen and fallen, and that beings from other habitable planets have visited Earth—it must be conceded that his claims are at least ethnographically valid.

It's true that the Hopi sincerely believe their tribal history, and it might benefit us to consider seriously what White Bear said.

Essentially, White Bear described a succession of cycles, over vast periods of terrestrial time, which involve the development and destruction of societies.

Humanity, he said, advances for a long period—a golden age— then progressively loses contact with its true spiritual nature through egoism and avarice, and this disharmony eventually manifests in the three dimensional realm as natural disasters, conflicts, wars, environmental degradation and disease.

In the Western view, these things happen *to us*; but in the Hopi world-view, spirit and form intimately intertwine, so mankind's disharmonious (evil) deeds manifest in the physical environment as crises.

In the late 1970s, a former NASA engineer named Josef Blumrich enlisted White Bear's help in producing a book in German called *Kásskara und die sieben Welten* ("Kásskara and the Seven Worlds"), which has not been published in English. In the course of his research, Blumrich often stayed with White Bear and his wife, Naomi, at their home in Sedona, Arizona.

The couple escorted Blumrich to ceremonies on the Hopi Reservation, explaining to him what was happening, and arranged for him to interview elders of the various clans.

Blumrich recorded White Bear, and Naomi transcribed those recordings into a typed and coherent transcript. That manuscript is the basis for Blumrich's book.

A few years ago I received a partial copy of the document from Henry Denny, the teacher through whom I met White Bear.

Recently I searched the web for a complete copy, not expecting to find one, and was surprised to find two sources. I enquired, not hearing from one but learning from the other that she had acquired the document in the same way Henry had— directly from White Bear and Naomi.

Currently these are the only two sources online, although I will be releasing my tidied-up version in a few months on The Swill Bucket website. The quoted passages that follow are slightly edited for publication here.

The document begins with White Bear's introduction:

"This is the history of my ancestors and the clans who came to this land. The continent on which my people lived for a long time was sinking into the sea. The people had to leave it and go to a new continent in the east to make a new beginning."

White Bear described Kásskara as a continent that sank into the Pacific Ocean. He said Hawaii is a remnant of the Hopi ancestors' original motherland, and Rapa Nui (Easter Island) is the last remaining of several islands that helped Kásskaran refugees cross the vast expanse of ocean to South America

Kásskara was submerging at about the same time as Atlantis was sinking, although Atlantis went down quickly, White Bear said, due to its heavier negative karma. Because Kásskara's offences were not as serious, the retribution that its people suffered was lighter and the destruction happened more slowly. The population had time to flee.

It was important and necessary, White Bear felt, to inform the world about Hopi history and the previous cycles of advancement and destruction the world has undergone, but he was heavily criticised by some Hopi who believed that he should not have revealed these truths to the masses.

White Bear said: "It is time to speak about our people and to tell you who we are and why we are here in the hope that somebody one day will understand us. Although I am the one who is speaking here, it is the knowledge of the Hopi that you will know. Out of the long story of the Hopi arises a warning for you. You will understand later what I want to say when I tell my story. This is why I speak now. That concerns us all. Perhaps this warning will not come too late."

### **A Succession of Worlds**

According to White Bear, humankind lived in two other worlds, Tokpela and Tokpa, before emerging into the Third World, Kásskara (coeval with Atlantis), and then into our present Fourth World.

These successive worlds generally correspond to various continents, time periods and changing configurations of global geology through which the Hopi ancestors were granted protection by some very interesting beings whom they call Kachinas—otherworldly denizens with physical bodies who helped them survive planetary cataclysms and directed their migrations.



Drawings of kachina dolls from an 1894 anthropology book. (Source: © Wikipedia.org )

The Kachina dolls known to tourists are simply representations meant to familiarise Hopi children with the various Kachina entities so they don't fear them during ceremonies.

In the First World, the Taiowa divinity created humans and all things in this universe. "He gave us intelligence and the capacity for knowledge," White Bear said. "He gave man all he needs in his life, and he gave him the laws and duties in this universe, which man must obey."

He explained that the First World was destroyed by fire because people had become malicious. But his people—those who in more recent times became the Hopi—survived the destruction because they had been selected to preserve the knowledge through time.

The Second World was destroyed by ice. Once again, his people survived and arrived in the Third World, the third continent. All these and later events are still alive in Hopi ceremonies.

### **The Third World: Kásskara**

"The name of the Third World is Kásskara. Few people today know the significance of this very old word. I learned it from Otto Pentewa [a Hopi elder], who remembered it as the Mother Ground," White Bear said.

"We also call it the Country of the Sun' because we like to refer to the Sun and the soil which keep us alive."

Kásskara was a continent situated mostly south of the equator with a small portion in the north, White Bear said, and is identical with what we today call Lemuria, or Mu.

"It was a very beautiful country. Compared with today, it was almost a paradise. We worked, but we did not need to work hard. Since our beginnings in the First World, we had followed the plan of our Creator and cultivated our food ourselves,"

White Bear said. "In these times, we had chosen corn as our principal food, and we brought it to the Second World and we continued to live with it in the Third World. When you see our corn, think of the fact that the Hopi have had it since very old times, since the First World.

White Bear explained that the Hopi were given knowledge relating to plants and animals. They could communicate with them. They had scientific knowledge but did not use it to manufacture objects that hurt people.

"People then had respect for one another. The clans had their own bosses, but they had in common a respected spiritual leader. In the life of the Hopi there always was a clan which held supremacy for a certain time in order to ensure that we fulfilled our obligations and responsibilities well, like our good behavior in life," White Bear said.

"When we inherited this world, the Clan of the Bow held the leadership. For this reason, the chief of the Clan of the Bow was Kásskara's sovereign. At the beginning, all was well in Kásskara. Much later, men gradually began to lose respect for one another. Initially it was just a few, then more and more. As you see, we are exactly like other men. I can compare that with what occurs today in the organizations: people want to have some rank and power; they want their share," White Bear said. "The same thing happened in Kásskara."

### **Atlantis: from Peace to War**

To the east of Kásskara was Talawaitichqua, or "the Eastern Country", which means roughly "Land of the Morning Sun". White Bear said there was "a large surface of water" between Kásskara and Talawaitichqua, the land we call Atlantis.

"At the beginning of the Third World, people of Atlantis were as peaceful as we were. We have, of course, the same divine origin. They had the same symbols as we had. But with time they changed. They started to explore the secrets of the Creator which man should not know. There exist secrets which are only intended for the divinity, and when men started to study them they infringed on this law. In fact, man has the same capacity as the Creator, but the Creator maintains secrets which men should not seek to understand," White Bear said, noting that this matter concerning the secrets is "very serious". He drew a parallel to our time to help us understand what the Hopi believe.

"Your civilization developed many things—airplanes, for example. When my uncle led me to Oraibi to see the ancient inscription of a jet, which is naturally much older than your jets of today, he said to me, It would be very good to fly again through the air as our people did in the past," White Bear explained. "My uncle said, When there is a catastrophe somewhere far away, one can bring help like food, drugs and tools. But an airplane can also bring death to men hundreds of miles away, and in doing that one will disobey the divine law."

White Bear asked how we can exclude ourselves from responsibility if we assist in conducting research that leads to destructive ends.

"Let's suppose you made a scientific discovery in the field of rocketry and somebody makes a bad use of your discovery. You would not do it, but it is your discovery," White Bear insisted. "Do you really know where your responsibility begins and ends?"

The Hopi do not oppose technology, and they endorse research that will help humanity stay alive and healthy. "The Creator wants us to benefit from this life and do as little heavy work as possible, and he wants all that is good, all the joy, all the happiness of this world, to become ours," White Bear said. "But now [researchers] try to produce artificial life, and one day also a human. Well, these things you should not do!"

He said we can summarise all that in two sentences: "The divine Creator said to us, If you want to be my children, you should not use your knowledge to destroy, kill or misuse what I gave you. If you do not respect this law, you are not my children."

White Bear said that towards the end of the Third World, a very powerful and beautiful woman rose to become Queen of Atlantis. She used her beauty to manipulate the chiefs of her people, receiving so many jewels that she was given the nickname "the Turquoise Woman". She used her powers to subject these personalities, including scientists and politicians, and in this way became sovereign of the entire continent.

White Bear pointed out that Atlantis was similar to England—a small country with great influence. Atlantis eventually extended its reach farther to the east, into what we know today as Europe and Africa.

"The inhabitants of Atlantis had researched secrets of the Creator for which they were not spiritually ready. They had obtained knowledge of these secrets too early and used it to subjugate other people. In doing so, they infringed on the divine order. They also studied other planets, and they even went there," White Bear said. "These were dead planets where no one could live, so they had to remain on our good old Earth."

White Bear explained why Atlantis turned against Kásskara. "They knew that morally and spiritually we were much stronger, and that made them envious. This is also why the queen wanted to conquer our country and subjugate our people. She threatened our sovereign [and said she would] join together all her spaceships above our continent and destroy us from up there. But he refused to give in. For a long time talks were held, which one can also call conferences. All the great men of that time held meetings.

"As I already said, there were among us people who had become avid seekers of status and power. Their religious belief had weakened and people no longer had respect for one another. We were in a situation which compares very well with the current one," White Bear said.

"Within time, the influence of [Atlantis's queen] led to a schism between our people. She started to get some of our people on her side— those men seeking power, whom I spoke about. They walked away from our laws and said to themselves, If we choose the side of the people of Atlantis and accept their requirements, we might later acquire a

fair share of the power.

"The malicious ones took over. They had studied many secrets of the Creator which humanity should not know, but we did not take part in this. We wanted to be and remain peaceful people. I believe that actually it was the Creator who used his capacity to keep us away from these things.

"The chiefs met many times. But the group of those who had scientific knowledge was much stronger, and they came to attack my people with the material of their capacities and invention," White Bear said. "From very high in the air they directed their magnetic force on our cities. But those of our people who had not left the true way of our Creator were gathered in a certain area in order to be saved."

### **Myths and Prophecies**

The Hopi believe that technological civilisations have arisen previously, much further back in time than most conventionally educated people can accept.

Our general cultural timeline sets "Western civilisation" as being about 6,000 years old. We vaguely acknowledge that the ancient cultures of China and India might be 8,000 or 10,000 years old, but the notion that there existed any advanced civilisation before the end of the last ice age just isn't occurring to most of us.

As writer Graham Hancock said so aptly: "I am convinced by the evidence that we are a species with amnesia. We have forgotten something of great importance from our own past."<sup>3</sup>

In the dialogue of *Timaeus*, even Plato's unfinished account of Atlantis suggests we should push back the date of civilisation to at least 11,000 years. In the account, Solon was told by an Egyptian temple priest at Sais of Egypt's ancient age: "O Solon, Solon, you Hellenes are never anything but children, and there is not an old man among you," the priest said. Solon asked him what he meant.

"I mean to say that in mind you are all young; there is no old opinion handed down among you by ancient tradition, nor any science which is hoary with age. And I will tell you why. There have been, and will be again, many destructions of mankind arising out of many causes; the greatest have been brought about by the agencies of fire and water, and other lesser ones by innumerable other causes," he said.

The priest explained to Solon that certain myths actually refer to astronomical phenomena: "There is a story, which even you (Greeks) have preserved, that once upon a time Phaethon, the son of Helios, having yoked the steeds in his father's chariot, because he was not able to drive them in the path of his father, burnt up all that was upon the earth, and was himself destroyed by a thunderbolt. Now this has the form of a myth, but really signifies a declination of the bodies moving in the heavens around the earth, and a great conflagration of things upon the earth, which recurs after long intervals..." the priest told him, which may suggest why many ancient cultures diligently monitored astronomical cycles.

Like the Hopi, the temple priest knew that over the ages technological civilisations have been destroyed by cataclysms and forgotten. Today, however, the prevailing attitude among most academics compels them to dismiss Plato's Atlantis tale as fabulous, despite its detail, just as others ignore the advanced mathematics and engineering necessary to have sited and built the Great Pyramid.

The Hopi don't perceive time in a straight line as we tend to. While we may assume that our civilisation represents the pinnacle of human technological achievement, the Hopi wait patiently on their remote mesas for our version of civilisation to disappear, which it inevitably must because it's disharmonious with the laws of the universe.

White Bear said that he and other elders had met in a kiva at Shongopovi (Hopiland) to discuss their current situation. "We see at this moment the same things occurring as those that occurred right before the destruction of the Third World. We are concerned because we know what will arrive," White Bear said. "We know that we have reached the point of no return."

### **About the Author:**

Shawn Hamilton is a teacher and reporter in California. He began his teaching career in Taiwan in 1989 when large rallies were supporting the protesters at Tiananmen Square in Beijing, China. He returned to the relative calm of the United States and took up a teaching position in Compton, a city near Los Angeles, in time for the rioting that occurred there, sparked by an unpopular court decision.

Hamilton moved to Sacramento where he taught classes part-time and covered the capitol as a reporter for Pacifica Radio's KPFA in Berkeley, near San Francisco. He received a Project Censored award in 2011 and writes poetry for fun.

As a teenager, Hamilton was introduced to Oswald "White Bear" Fredericks by his high school anthropology teacher, and he became intrigued by traditional Native American culture. The experience led to his travelling to Nevada to

spend a few days at the camp of Shoshone healer John "Rolling Thunder" Pope. While attending Humboldt State University in California's Redwoods a few years later, Hamilton took classes in Native American Studies and began participating in ritual sweat lodge ceremonies on the Eel River. The experiences, he says, changed his life.

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## THE TOP 10 HISTORICAL AND ARCHAEOLOGICAL DISCOVERIES OF 2015

Ancient-Origins.net  
22 December 2015

The year 2015 was another great one for archaeological and historical research. Amazing discoveries were made all over the world and provided more windows into the lives of our ancestors.

Studies that intertwined myths and legends with science created spectacular results and showed us how the past and present continue to be connected.

This year, the Top 10 List of Historical and Archaeological Discoveries is based on the articles that Ancient Origins' readers chose to view time and again.

Mesoamericans could create liquid mercury by heating mercury ore, known as cinnabar. They used it to decorate jade objects and colour the bodies of their royalty. Traces of mercury have been found at three other sites—two Maya and one Olmec—in Central America, but none in such large quantities as discovered beneath the Temple of the Feathered Serpent in Teotihuacán, Mexico.

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10.

### MUMMIFIED MONK REVEALED INSIDE BUDDHA STATUE

A shocking discovery was made in February when Dutch researchers studying a Chinese Buddha statue found that it contains the mummified remains of a Buddhist monk. The monk is believed to be the Chinese master Liuquan, of the Chinese Meditation School, who died around 1100 AD.



Photo of the Buddha statue and a CT scan showing the mummified monk inside. (Source: Drents Museum, Assen, the Netherlands)

The finding may reflect an example of self-mummification, where monks undertook years of gruelling rituals to mummify themselves to death.

The practice was also widespread in Japan, starting over 1,000 years ago and continuing until it was banned in the 19th century.

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9.

#### DNA ANALYSIS OF ANCIENT SKELETONS ESTABLISHES ORIGINS OF THE BASQUES

The Basque people, with their unique language, traditions and customs, have been an enigma to anthropologists for years. Their origins have long been a mystery.

Researchers now believe they have finally pinpointed the beginnings of this special group of people—from a study of eight ancient skeletons found in a cave in northern Spain.

The results of DNA analysis suggest that prehistoric Iberian farmers are the closest match to the modern Basques.

This new information contradicts the previously held belief that the Basque ancestors were earlier groups of pre-agricultural hunter-gatherers.

Furthermore, the scientists claim that the ancient ancestors of the Basques arrived in the region, mixed with some other farmers and hunter-gatherers.. .and then were isolated.

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8.

#### ULTRAVIOLET LIGHT SHOWS HIDDEN TEXT IN WELSH BOOK OF ARTHURIAN STORIES

Cambridge University researchers discovered that parts of one of the most important books in Welsh history were erased and some of the texts on its animal-skin pages overwritten. The 13th-century book, titled *The Black Book of Carmarthen*, includes Arthurian stories, Christian prayers and poetry.

A man who owned the book in the 16th century, probably Jaspas Gryffyth, erased verse, doodles and marginalia that had been added to the manuscript over the centuries as it changed hands.



Under ultraviolet light, a hidden verse and images can be seen on a page from The Black Book of Carmarthen. (Source: National Library of Wales)

Using photo-editing software and ultraviolet light to examine the vellum pages, the scholars revealed poetry that is unknown in the Welsh canon. The poems are fragmentary, but the scholars hope that with further analysis they can read the text, which they think is the ending of a poem on a preceding page and a new poem at the bottom of the page.

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7.

#### ETRUSCAN TOMB WITH SARCOPHAGI AND TREASURES UNEARTHED IN ITALY

Archaeologists made a rare discovery near the small town of Citta della Pieve, near Perugia in Italy: a 2,400-year-old sealed and untouched Etruscan tomb.

The burial chamber contained sarcophagi and a wealth of grave goods, providing a fascinating window into the

mysterious civilisation that disappeared around two millennia ago.



A reclining figure on the lid of an alabaster marble urn found in the Etruscan tomb. (Source: Soprintendenza Archeologia Dell'Umbria)

The contents of the discovered tomb have been transferred to a museum in Citta della Pieve in order for restoration and further study to be conducted. There are plans to display the finds to the public in the near future.

The marble sarcophagus contained a male skeleton and bears a long inscription, including the name "Laris", which may refer to the individual inside the coffin.

A sarcophagus covered with plaster also had an inscription. However, the coffin was damaged in a collapse that occurred in antiquity and the inscription is now in thousands of fragments. Nevertheless, the sarcophagus remains sealed and archaeologists expect to find a skeleton inside.

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6.

#### TOMB FOUND OF PREVIOUSLY UNKNOWN EGYPTIAN QUEEN

A team of Czech archaeologists discovered a tomb in an ancient Egyptian necropolis that belongs to a pharaonic queen who ruled around 4,500 years ago and was previously unknown to historians. The tomb was found in Abusir, often called the "site of the forgotten kings of the Fifth Dynasty".

The tomb belongs to a wife of Neferefre who was named Khentakawess III. Two previous queens of Neferefre with the same name have already been identified.



The remains of Neferefre's unfinished pyramid at Abusir, containing the tomb of Khentakawess III. (Source: Wikimedia Commons)

Egyptian Antiquities Minister Mamdouh el-Damaty said it was the "first time" that the name of this queen had been revealed; in fact, she had been "unknown before the discovery of her tomb".

He added that her name and rank had been inscribed on the inner walls of the tomb.

The archaeologists found about 30 utensils, 24 made of limestone and four of copper, inside Khentakawess III's tomb.

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5.

#### 4,000-YEAR-OLD EGYPTIAN MANUSCRIPT REDISCOVERED

The oldest known Egyptian leather manuscript, dating back some 4,000 years, was rediscovered at the Egyptian Museum in Cairo after it was pulled from a dusty old storage box where it had been lost for about 70 years.

The precious text contains fine-quality colourful depictions of divine and supernatural beings which predate the famous drawings of the Egyptian *Book of the Dead*. The manuscript measures 2.5 metres (8.2 feet) in length, making it the longest text ever found.



The rediscovered manuscript has been compared to the Egyptian Book of the Dead. The image above features part of the Book of the Dead of Pinedjem II. (Source: Wikipedia)

"Taking into account that it was written on both sides, we have more than five metres (16.4 feet) of texts and drawings, making this the longest leather roll from ancient Egypt," said Dr Wael Sherbiny, the Belgium-based scholar who made the find.

The ancient text, which dates from the late Old Kingdom to the early Middle Kingdom (2300-2000 BC), is a religious manuscript and contains spells, which would most likely have been recited by a priest, and an illustrated composition of temple rituals that would have also been adapted for funerary use.

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4.

#### RIVER OF MERCURY LOCATED UNDER TEMPLE OF THE FEATHERED SERPENT IN MEXICO

Archaeologists believe that the discovery of liquid mercury in a tunnel beneath the Temple of the Feathered Serpent in Teotihuacan, Mexico, may represent an underworld river that leads the way to a royal tomb or tombs.

The remains of the kings of Teotihuacan, some of the most powerful rulers of the pre-Hispanic world, have never been found. Such a discovery would be monumental as it would unravel many of the mysteries surrounding this ancient civilisation.



Temple of the Feathered Serpent, Teotihuacán, Mexico. (Source: Wikipedia)

The entrance to an 1,800-year-old tunnel beneath the Temple of the Feathered Serpent, the third largest pyramid at Teotihuacan, was discovered in 2003, and an extensive project involving human researchers and remote-control robots has been ongoing ever since.

"The tunnel is the metaphorical representation of the conception of the underworld," said Sergio Gomez of the Instituto Nacional de Antropología e Historia.

A large offering was found near the entrance to three chambers, suggesting that these could be the tombs of the city's elite.

"Due to the magnitude of the offerings that we've found, it [the royal tombs] can't be in any other place," Gomez added.

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3.

#### URBAN MYTH CONFIRMED AS ARCHAEOLOGISTS DISCOVER HIDDEN TUNNELS IN MEXICO

Talk of a maze of underground tunnels beneath the colonial city of Puebla in Mexico have long been disregarded as mere urban legend. However, city authorities confirmed that their existence is real.

Believed to date back as early as 1531 when the city was founded, the subterranean tunnels reach up to 10 kilometres (6.2 miles) in length beneath the historic centre of the city. The tunnels were well used.

"Churches were communicating in secret alleys; there is a network of the main monasteries, from Santo Domingo, San Agustín, La Merced to San Javier," said Sergio Vergara Bermejo, manager of the Cultural Heritage and Historical Centre of Puebla.



Part of the newly discovered tunnel network below Puebla, Mexico. (Source: Telegraph Video, Associated Press Television News)

The tunnels were also used during the Battle of Puebla in 1862, when Mexican troops faced the French Army and were victorious.

The plan is to transform the newly discovered subterranean world into a tourist attraction so that visitors can learn more about the stories and legends of this historic city.

However, for now, the exact location of the tunnels is being kept secret.

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2.

#### MEGALITHIC STONES DETECTED BENEATH DURRINGTON WALLS NEAR STONEHENGE

An enormous row of 90 megalithic stones was found buried beneath the prehistoric superhenge of Durrington Walls earthworks, only one mile (1.61 km) from the world-famous site of Stonehenge in Wiltshire, England.

The huge line of megalithic stones lies three feet (91.4 cm) underground and was discovered through the use of sophisticated radar equipment. The superhenge is believed to have been a huge ritual monument.



The earliest phase of the Durrington Walls earthworks with a graphic representation of the row of megalithic stones. (Source: Ludwig Boltzmann Institute)

The row of megalithic stones formed the southern arm of a C-shaped ritual enclosure, which faced directly towards the River Avon, the rest of which was made up of an artificially scarped natural elevation in the ground.

The monument was later converted from a C-shaped to a roughly circular enclosure, now known as Durrington Walls—Britain's largest prehistoric henge, roughly 12 times the size of Stonehenge itself.

"The presence of what appear to be stones, surrounding the site of one of the largest Neolithic settlements in Europe, adds a whole new chapter to the Stonehenge story," said Dr Nick Snashall, National Trust archaeologist for the Stonehenge & Avebury World Heritage Site.

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1.

#### REPLICA OF MYTHICAL TOMB OF OSIRIS FOUND AT THEBES IN EGYPT

A Spanish-Italian archaeological team, in cooperation with the Egyptian Ministry of Antiquities, made an incredible discovery in the necropolis of Sheikh Abd el-Qurna on the west bank of the Nile at Thebes:

An enormous, ancient reproduction of the mythical Tomb of Osiris, as described by Egyptian legend, complete with multiple shafts and chambers. Inside the tomb complex, researchers found a carving of Osiris and a room with a wall relief depicting a demon holding knives.



Inside the replica of the tomb dedicated to the Egyptian god Osiris. (Source: MinProject, Canarian-Tuscan Archaeological Mission)

"The symbolism of Osiris is very evident here," wrote *Luxor Times Magazine*, "since all the elements recalling the mythical Osiris tomb are present: a big staircase 3.5 metres long with a four-metre-high ceiling at the bottom, leading to the Netherworld, and another one leading directly to the Osiris statue, which is therefore at a higher level and ideally isolated on 'his island'; the Osiris statue itself; the empty corridor surrounding it which symbolizes the channel of water (see Osireion in Abydos); the expected burial chamber below the statue, thus identifying the deceased with Osiris."

The co-leader of the team, Dr Marfa Milagros Alvarez Sosa, said the tomb is of "great importance" because "the burial chambers contain dead who slept their eternal sleep under the god of the dead, Osiris".

(Source: *Ancient Origins*, 22 December 2015, <http://www.ancient-origins.net>, <http://tinyurl.com/jrc28r6> )

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# BOOKS

Reviewed by Ruth Parnell

## **HIGHLY INTUITIVE PEOPLE**

by Heidi Sawyer

Hay House, London, 2015

ISBN 978-1-78180-476-6 (242pp tpb)

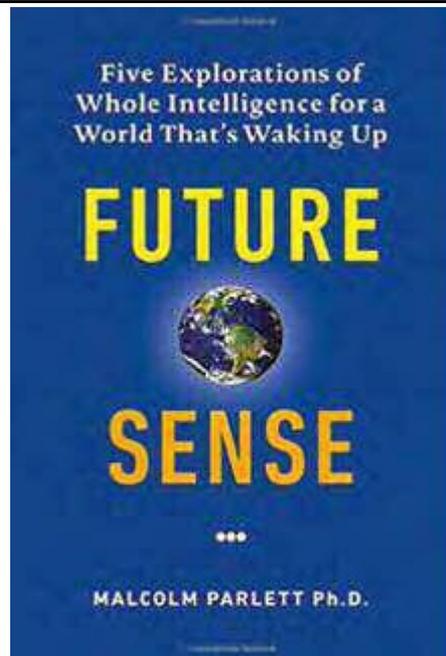
Available: [www.hayhouse.co.uk](http://www.hayhouse.co.uk)

Intuitive-sensitive people comprise 15-20 per cent of the population, says Heidi Sawyer, a highly intuitive person herself and someone who has over 17 years' experience in helping other like-souls become more of who they are (see [www.heidisawyer.com](http://www.heidisawyer.com)).

So often, the highly intuitive hide their true natures, overwhelmed by their fears, their ability to tune in too readily to other people's thoughts and emotions, and their desire to forge deep, meaningful connections.

Sawyer describes the traits of highly intuitive people, including their wisdom which can often cause emotional isolation (even in their childhood), their sensitivity to criticism and their proneness to be taken advantage of by others who lack empathy. Sometimes their sensitivity gets the better of them and they develop health issues. They need to identify with their purpose in life.

Sawyer has developed a seven-step program to help sensitives come to terms with their unique gifts and rework how they relate to the world without compromising themselves. She includes ideas and exercises plus testimonials from intuitive-sensitives who have overcome their challenges. Her book is a boon for intuitives who want to connect with their true self and the freedom that this offers.



## **FUTURE SENSE**

by Malcolm Parlett, PhD

Matador/Troubador, UK, 2015

ISBN 978-1-78462-455-2 (302pp tpb)

Available: [troubador.co.uk/matador](http://troubador.co.uk/matador)

With so much turmoil in our world, people everywhere have an instinctive feeling that there's got to be a better way ahead for us all.

Oxford-based psychologist, teacher and coach Dr Malcolm Parlett proposes that we explore "whole intelligence" or *whi* (pronounced "whee")—our inherent all-round competence and our access to wisdom—and consider how it can be applied creatively at individual, community, organisational, national and global levels.

He came to write this book because he sees that many consciousness-changing books don't explain how to achieve positive change for long-term survival.

Parlett describes five dimensions of *whi* to help us on our way, as applied to handling situations, relating to others, living more fully in our bodies, discovering more about ourselves, and experimenting with discernment.

Each dimension supports the others and is integral to achieving a high quality of living and consciousness development. This comes down to the individual level, but with a view to creating more empowered global citizens where we can all make a contribution for the benefit of the world.

*Future Sense* contains historical perspectives as well as feedback from people who are walking the talk. There are many *whi* insights here for grassroots and community groups, organisational managers and even politicians to filter on the way to transforming lives for the better.

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### **HOW TO TALK TO AN ALIEN**

by Nancy du Tertre

New Page Books, NJ, USA, 2016

ISBN 978-1-63265-021-4 (169pp tpb)

Available: [NewPageBooks.com](http://NewPageBooks.com)

According to many accounts, Earth is being visited by a large number of alien species that belong to different galactic civilisations and have a history of contact with us Earthlings.

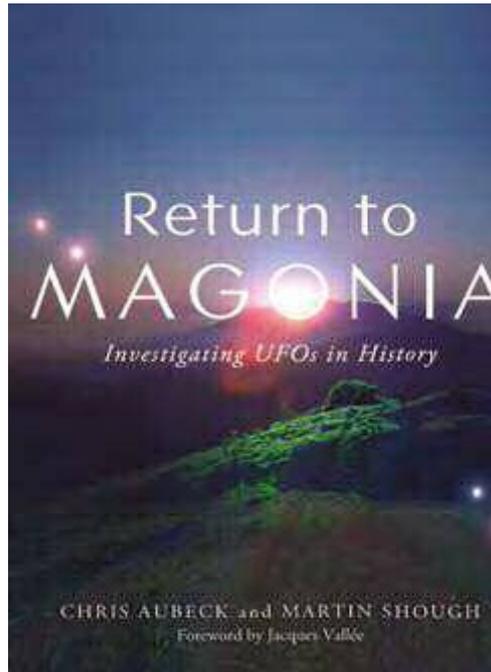
So how do these diverse beings communicate with us? How can they understand us and how can we understand them? Is there any point in our sending SETI radio messages? And what if this ET communication is telepathic? This is the stuff of "exolinguistics".

Nancy du Tertre, a lawyer turned psychic detective, remote viewer, psychotherapist and author (*Psychic Intuition*), asks the left-of-field questions. Did we expect to receive a reply to the 1974 Arecibo binary code message in a 2001 crop circle beside a radio telescope in the English countryside? No, but the message is still being deciphered.

She examines cases that focus on whether alien species are biologically able to talk in their own languages or in our own, or indeed if they need to talk at all. There are instances of aliens talking to contactees in their own languages and with foreign accents but, then again, who needs language when you have telepathy, she quips.

Du Tertre covers related aspects of alien communication utilising electronic devices and also writing, and she presents many examples of scripts, some channelled, some possibly from "angelic" sources and some reported by UFO eyewitnesses. Go to [theskepticalpsychic.com](http://theskepticalpsychic.com) and [talkalien.com](http://talkalien.com) for more information.

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### **RETURN TO MAGONIA**

by Chris Aubeck and Martin Shough  
Anomalist Books, TX, USA, 2015  
ISBN 978-1-938398-54-4 (367pp tpb)  
Available: [AnomalistBooks.com](http://AnomalistBooks.com)

Strange lights in the sky, fireballs, astronomical phenomena, disc-like objects and anomalous beings mystified our ancestors as much as they mystify us today.

Curiously, as the annals of ufology divulge, it seems that UFOs evolve just a little bit ahead of our own technological advances. We all apply our own cultural filters and are prone to making observational errors, but the truth is often stranger than fiction.

Seasoned UFO researchers Chris Aubeck and Martin Shough have joined forces for this project that critically analyses phenomenal sightings going back over the last 500 years and touches on ones recorded as far back as antiquity. Their book's title is a nod to noted scientist-ufologist Jacques Vallee, author of *Passport to Magonia* (1969). Vallee cowrote *Wonders in the Sky* (2010) with Aubeck and wrote the foreword to this new book, *Return to Magonia*.

Referring to published sources in books, journals and newspapers, Aubeck and Shough apply scientific rigour to numerous cases, utilising astronomical programs, meteorological, military and genealogical records, photographs, maps and data compiled by networkers.

Most of the cases, whether from the UK, Europe, the USA, Asia or Australia, have a high degree of strangeness and remain mysterious despite the authors' attempts to unravel the truth. An intriguing compilation.

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### **ADHD AND THE EDISON GENE**

by Thom Hartmann  
Park Street Press, VT, USA, 2005, 2015  
ISBN 978-1-62055-506-4 (268pp tpb)  
Available: [www.ParkStPress.com](http://www.ParkStPress.com)

The very gene associated with attention deficit hyperactivity disorder (ADHD) may have helped humans survive sudden climate changes before the end of the ice age.

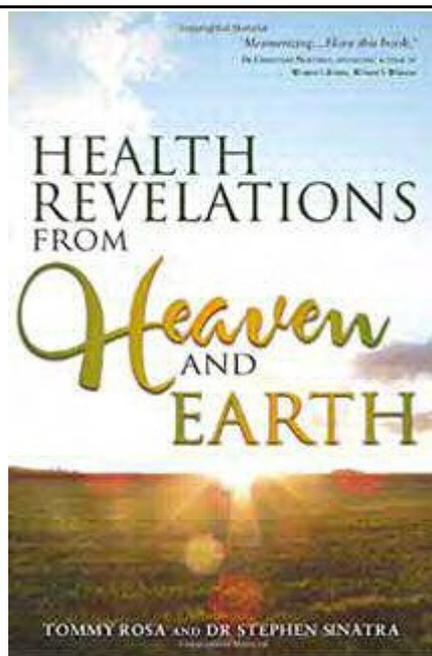
The "hunter" gene was triggered into full flowering c. 40,000 years ago when major volcanic activity caused catastrophic conditions and led to the death of much of the human population and the survival of those most able to relocate and adapt quickly—as some hunter-gatherer populations did.

So argues former psychotherapist Thom Hartmann, who explains that children and adults with ADHD have characteristics such as risk-taking, distractibility, creativity and impulsiveness that are ideal for life paths that could well save us in the future.

They're ideally suited to becoming entrepreneurs, explorers, inventors, innovators, emergency room physicians and fighter pilots. The reference to the "Edison gene" is because the prolific inventor Thomas Alva Edison had typical ADHD traits but a nurturing upbringing—essential for reaching full potential.

Drugs are not the answer; nor is the structured education system which has no room for "problem" children. However, Hartmann has strategies to help parents and teachers bring out the best in so-called hyperactive kids.

As for why this Edison gene has come to the fore in recent decades, Hartmann speculates that our rapidly changing technological society has a lot to do with turning it on.



### **HEALTH REVELATIONS FROM HEAVEN AND EARTH**

by Tommy Rosa and  
Dr Stephen Sinatra  
Hay House, London, 2015  
ISBN 978-1-78180-723-1 (255pp tpb)  
Available: [www.hayhouse.co.uk](http://www.hayhouse.co.uk)

A chance encounter between a cardiologist-psychotherapist and a former Bronx plumber in 2010 led to a collaboration that has a message for us all.

Dr Stephen Sinatra, with over 40 years of clinical practice, had already been paying attention to patients who reported near-death experiences and also had been prescribing holistic treatments for heart and emotional problems—with positive results.

Tommy Rosa was the victim of a hit-and-run incident in 1999, and in the process went out of body to a heavenly place where a shining Teacher schooled him in divine knowledge and wisdom which he was meant to bring back to the earthly plane for humanity's benefit.

In this world of peace and love, Rosa learnt of the reality of guardian angels and had heartfelt reunions with loved ones in spirit. His Teacher imparted eight key revelations concerning, for example, connection, grounding and purpose. In their book, Rosa describes each of these in detail and Dr Sinatra adds to them with practical health information and "prescriptions" on how to apply them.

Dr Sinatra closes the book with a primer on behaviours, activities and attitudes that raise your vibrations to levels that heal. Rosa, now a spiritual counsellor and the founder of the Unicorn Foundation, uses his experience to help people overcome their fear of death. A unique effort.

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## **SWIPED**

by Adam Levin  
PublicAffairs, New York, 2015  
ISBN 978-1-61039-587-8 (270pp hc)  
Available: [www.publicaffairsbooks.com](http://www.publicaffairsbooks.com)

Identity theft has reached epidemic proportions, and it's not just hackers, "phishers" and spammers stealing your personal information.

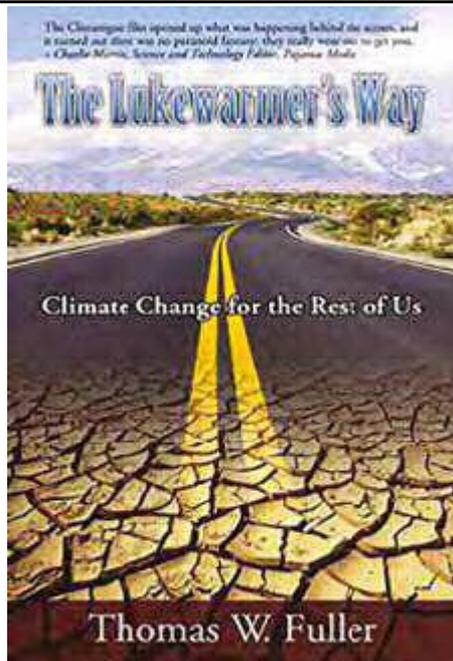
It's estimated that 30 per cent of perpetrators are people close to you: family members and friends.

New York-based consumer and privacy advocate Adam Levin has written a practical guidebook to help us prepare for and deal with compromises to personal and corporate security.

His "Three Ms" strategy consists of minimising your exposure to identity theft, monitoring your accounts and credit reports, and managing the damage by having a protection plan in place even before you are victimised. His Three Ms strategy for companies is much more extensive, involving layers of security, employee training, cyber insurance and breach notification planning.

Among the subjects that Levin addresses are the Internet of Things and how appliances with default password settings can threaten your security; tax-related scams; child identity theft; social media targeting; healthcare fraud; and identity theft of a deceased person.

He highlights these with disturbing stories of individual and corporate fraud. He is critical of governments, agencies and companies that have been negligent in *not* keeping up with hackers, and he calls for more effective regulations to mandate better security measures.



## **THE LUKEWARMER'S WAY**

by Thomas W. Fuller  
Stairway Press, WA, USA, 2015  
ISBN 978-1-941071-93-9 (293pp tpb)  
Available: [www.StairwayPress.com](http://www.StairwayPress.com)

With so much bickering between sceptics and alarmists over climate change, there has to be a middle ground. Thomas Fuller, who has training in anthropology as well as in physics via the US Navy and is a renewable energy researcher, applies a "lukewarmer" philosophy to climate change.

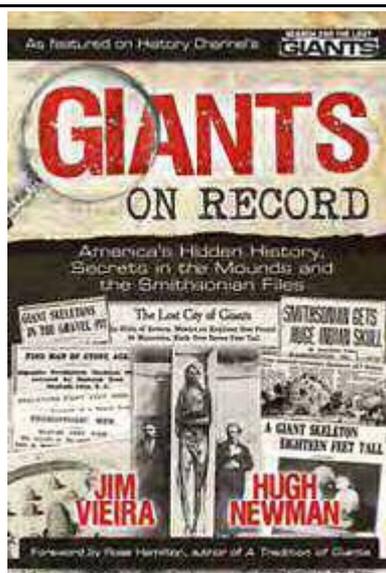
He's the co-author of *Climategate*, which examines the motivations of UK-US climate scientists with their controversial emails about climate change data.

As a lukewarmer, Fuller has no issue with the underpinnings of climate science and agrees that global temperatures are rising as a result of human intervention. He acknowledges that CO<sub>2</sub> emissions are the result of deforestation and land-use issues as well as the burning of fossil fuels.

However, he takes issue with the lack of solid data on CO<sub>2</sub> atmospheric sensitivity—the sensitivity of our climate to the doubling of CO<sub>2</sub> concentrations—acknowledging that sceptics think the atmosphere is not very sensitive while alarmists are convinced it is very high.

He notes that one-third of all human emissions of CO<sub>2</sub> have occurred since 1998 but the overall global temperature hasn't risen. The evidence can't yet prove very high atmospheric sensitivity to CO<sub>2</sub>.

Fuller presents detailed statistics and he critiques what scientists on either side of the debate are saying. He believes that coal will continue to be a key commodity. He says that if atmospheric sensitivity to CO<sub>2</sub> turns out to be very high, we're done for.



### **GIANTS ON RECORD**

by Jim Vieira and Hugh Newman  
Avalon Rising Publications  
Glastonbury, UK, 2015  
ISBN 978-0-9567865-1-7 (400pp tpb)  
Avail: Amazon.co.uk; Amazon.com

Giants have been part of folklore worldwide since time immemorial, but in the 1500s in South America they were reported by intrepid explorers. In colonial times in North America, their remains were the subject of eyewitness accounts and newspaper stories.

Authors Jim Vieira and Hugh Newman have been working together for several years, researching megalithic sites and collaborating on the TV show *Search for the Lost Giants*. For their book *Giants on Record* (see article in this issue) they've collected legends, maps, illustrations, diary records, photographs and newspaper articles.

They report on the findings of early explorers in the Americas, legends of "tall ones", evidence of giant skeletons found within burial mounds, anatomic anomalies including double rows of teeth found in skulls, and strange artefacts such as inscribed stone tablets, immense ceremonial axe heads, and blades made of copper, obsidian and quartz.

It's frustrating for researchers Vieira and Newman, and their predecessors, that so many enquiries have resulted in dead ends: skeletons and artefacts sent to the Smithsonian Institution for examination have never been seen again—at least in public. There is also a "secret society" angle, many of the authors' sources referring to a link between giants and Atlantis.

Vieira and Newman cast a wide net around the Pacific, tracking the origins of the tall people with reference to morphological, genetic, migratory and mythological studies. A well-referenced, engaging book.

## **STATINS TOXIC SIDE EFFECTS**

by David Evans  
Grosvenor House Publishing, UK, 2015  
ISBN 978-1-78148-390-9 (545pp tpb)  
Avail: Amazon.co.uk; Amazon.com

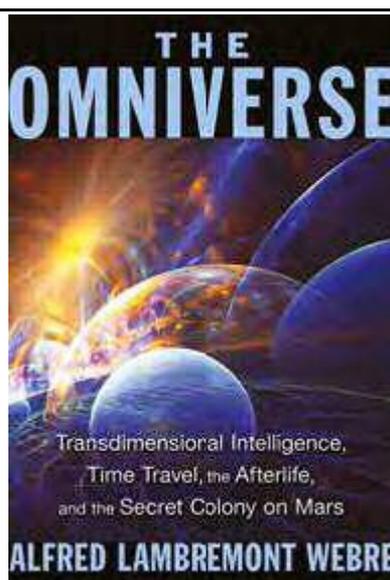
Not only do statin drugs *not* prolong life, they have a mind-boggling variety of toxic side effects. Among the biggest-selling legal drugs in the world, statins are prescribed to reduce high cholesterol levels, but the evidence is that higher cholesterol leads to longer life.

Many independently minded, eminent medical doctors maintain that these drugs are overhyped, overused, not safe and should be banned. Author David Evans, a nutritional adviser who's written previously about the benefits of saturated fat in preventing heart disease (dietsandscience.com), has compiled a summary of 500 primarily peer-reviewed studies on the adverse effects of statin drugs.

The research shows that statins increase the risk of diabetes and cancer, are associated with muscle damage and multiple organ failure, have deleterious effects on cognition and neurodegeneration, exacerbate asthma, increase male impotence and birth defects, deplete vital nutrients and act like poisons.

They have alarming effects on heart disease, stroke and cancer, may cause autoimmune diseases, arthritis and skin infections, and can damage vision, cause bowel problems and compromise bone structure. All this gives extreme cause for concern.

Evans says there are financial reasons for widespread prescribing of statins, and he includes a list of UK National Institute for Health and Care Excellence (NICE) panellists who have conflicts of interest. Make sure your doctor knows about this book.



## **THE OMNIVERSE**

by Alfred Lambremont Webre  
Bear & Company, Rochester, VT, 2015  
ISBN 978-1-59143-215-9 (211pp tpb)  
Avail: BearandCompanyBooks.com

Recognised as the founder of the science of exopolitics, Alfred Lambremont Webre now explores the idea of the omniverse, which encompasses the multiverse of all physical universes of exopolitical dimensions and the spiritual dimensions of intelligent civilisations of souls, spirit beings and the Source.

Author of the 2005 book *Exopolitics* (see 12/04), Webre adds to the body of data obtained by the scientific method showing that intelligent civilisations exist in the physical and non-physical dimensions.

His data comes from whistleblowers within secret ET liaison programs, documented records, information derived from technology-based out-of-body experiences, remote viewing studies, and a range of contacts and witnesses.

His exophenotypology helps to identify the frequency at which intelligent beings reside within exopolitical

dimensions—beings from Earth and Mars humanoids to hyperdimensional Greys, reptilians, insectoids, hybrids and others.

Webre investigates evidence for intelligent life on Mars and in the solar system, a top-secret US Mars program involving quantum access time-travel and teleportation utilising "jump rooms", and hyperdimensional controller-beings called archons.

He considers reports of governance councils of the dimensional territories, such as the Milky Way galaxy, and ETs' rethinking of their intervention protocol. He discusses the work of Michael Newton on souls as holographic fragments of God and on interdimensional portals between exopolitical and interlife dimensions.

Webre presents a new, evidence-based paradigm to explain our place in life, the omniverse and everything.

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### **MAGICIANS OF THE GODS**

by Graham Hancock

Coronet, London, 2015

ISBN 978-1-444-77967-7 (509pp hc)

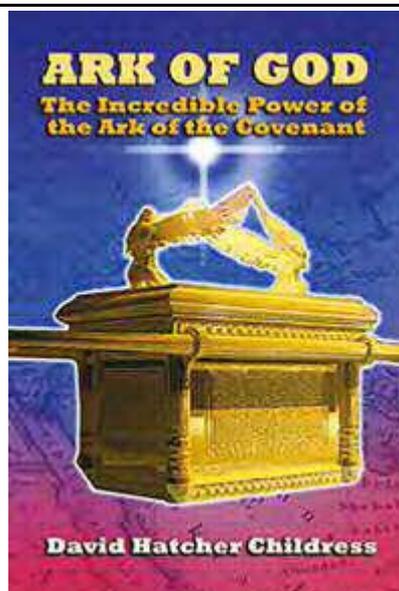
Available: [www.hodder.co.uk](http://www.hodder.co.uk)

For this sequel to *Fingerprints of the Gods* (1995), Graham Hancock visited sites around the world in search of evidence for an advanced prediluvian civilisation. Recent findings from Gobekli Tepe in Turkey and the Gunung Padang pyramid on Java to the monuments of Giza, Baalbek, Tiahuanaco and Easter Island suggest that these structures may have been built by the same civilisation, some of whose members survived a great cataclysm.

That cataclysm, Hancock proposes with reference to the work of pioneering scientists, began 12,800 years ago when large fragments of a gigantic comet hit the ice sheets of North America and Northern Europe, causing a catastrophic flood and a nuclear-type winter.

It ended 11,600 years ago when the Earth again encountered cometary fragments that hit the ocean, caused more floods and resulted in a global warming phase. Furthermore, the Earth will again pass through the Taurids within which the main cometary fragment is believed to reside. If Earth collides with it, mass extinctions will result.

The surviving ancients—the sages or "magicians" that kick-started civilisation before and after the Great Flood—knew of the precessional cycles and left warning signs for us today, e.g., constellation positions on "pillar 43" at Gobekli Tepe. Hancock's book is an absorbing big-picture analysis as well as a cautionary tale.



### **ARK OF GOD**

by David Hatcher Childress

Adventures Unlimited Press, USA, 2015

ISBN 978-1-939149-49-7 (295pp tpb)

Avail: [AdventuresUnlimitedPress.com](http://AdventuresUnlimitedPress.com)

The Ark of the Covenant continues to capture imaginations 3,000 years after it was supposedly built by Moses. The first five books of the Old Testament contain numerous accounts of the Ark's design and construction. Special priests had to wear protective clothing in its vicinity. What was its purpose, and what happened to it after its last reported resting place below Solomon's Temple in Jerusalem?

In his richly illustrated book, David Hatcher Childress traces the history of the Ark of the Covenant as mentioned in biblical texts, with reference to its sometimes fearsome effects. It was said to have brought down the walls of Jericho and killed innocent people who came too close to it.

Childress investigates whether it, or its contents, would have been capable of generating enough static electricity to emit deadly force, and whether it was capable of levitation and flight. References to pillars of fire could have been descriptions of UFOs. His belief is that the Ark or its technology originated in Egypt.

Referring to the *Kebra Nagast* book, Childress looks at evidence that the Ark was brought to Ethiopia after the Queen of Sheba's affair with King Solomon.

He also ponders on the faraway sources of Solomon's and Sheba's gold, the ancient empire of Axum in Ethiopia with its giant obelisks, and (with credit to Graham Hancock) the various places in Ethiopia that allegedly safeguarded the Ark of the Covenant. There are many more stories, but the truth is still hidden behind a veil of mystery.

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### **A SORCERER'S APPRENTICE**

by John Herlosky

Trine Day, Waltham, MA, USA, 2015

ISBN 978-1-63424-000-0 (264pp pb)

Available: [www.TrineDay.com](http://www.TrineDay.com)

Although a sceptic about psychic powers, John Herlosky had his curiosity aroused in 1997 when he stumbled across remote viewer David Morehouse's book *Psychic Warrior* (see 4/02).

In 1999, he signed up for Morehouse's remote viewing (RV) course, which started an enormous learning curve and a great friendship. Herlosky has a degree in criminal justice, has worked for two large police departments and was a contractor with the US Army. In 1992, he resurrected a "primary force multiplier" project called *Trojan Warrior* and was trained in advanced EEG feedback. This came in handy.

Herlosky summarises the history and context of the US intelligence-Stanford Research Institute's RV research initiative from the early 1970s and its oversight by the CIA, then the DIA, the NSA, the US Army and Air Force and again the CIA in 1995 as Project *Star Gate*.

He gives factual accounts and personal reflections on his training in coordinate remote viewing (CRV), extended remote viewing (ERV) which creates the sense of being in two places at once, and other advanced techniques. He describes specific RV sessions with unusual targets—the submerged *Titanic*, the surface of Mars, and a supernova—and he reproduces sketches and notes.

In his "apprenticeship", Herlosky learnt about the infinite multidimensional reality, parallel lives, and how not to engage with entities that feed off fear. He also met other key figures in the original military RV program. A surprising read.

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# DVDs

Reviewed by Richard Giles

THE MYTHS AND REALITY OF THE VACCINATION CAMPAIGNS



## WE DON'T VACCINATE

by Michael Leitner

2015 (100mins)

Available:

[www.nexusmagazine.com](http://www.nexusmagazine.com)

[www.we-dont-vaccinate.com](http://www.we-dont-vaccinate.com)

This documentary is the result of a community-funded project with support from several European health initiatives. Conceived and filmed by Michael Leitner and produced by Daniel Trappitsch, it's a hard-hitting, informative and well-presented documentary that includes interviews with parents, doctors, medical researchers and natural therapists.

The film has English translations added to the German soundtrack. It goes into the history of vaccines and the toxins they contain. The statistics on vaccine damage will open your eyes if you don't know the extent of adverse reactions. The interviews are presented in a calm, sensitive and straightforward manner. Its strong conclusion is that the practice of vaccination is not based on science but on pure belief—and propaganda.

One of the interviewees, Klaus Hartmann, MD, worked for the Paul Ehrlich Institute in Germany for 10 years but left over attempts to explain away deaths of children due to the Hexavac® vaccine. He stated that doctors don't report adverse reactions because doing so would compromise their professional reputations.

Simone Gahse said that although her child regressed further every time she was vaccinated, the doctors absolutely refused to consider the vaccines as the cause. She eventually put a stop to the vaccinations. Barbel Engelbertz, biologist, speech therapist and mother of a vaccine-damaged child, agreed that doctors don't accept that vaccines do harm.

Daniela Gerlemann saw the effects of the vaccines on her first child and decided not to take her second child to be vaccinated. Her first daughter was a perfectly happy youngster until the vaccines began to affect her. Inga Luhmann, a social worker helping disabled children, commented that two out of 12 kids in her care are obviously vaccine damaged.

Researcher Petra Cortiel studied the records of 1,433 unvaccinated children, comparing them with those of vaccinated children. She found, for example, that 15% of the vaccinated had attention deficit hyperactivity disorder

(ADHD) while only 0.8% of the unvaccinated kids had ADHD.

Bert Ehgartner, journalist and director of *The Age of Aluminium*, said he blames aluminium adjuvants in vaccines for much of this huge health problem. Germany's TOKEN Study looked at deaths after vaccination in children aged 2-24 months, but Ehgartner said the findings were altered by the Robert Koch Institute to show no deaths, whereas the English translation showed hundreds.

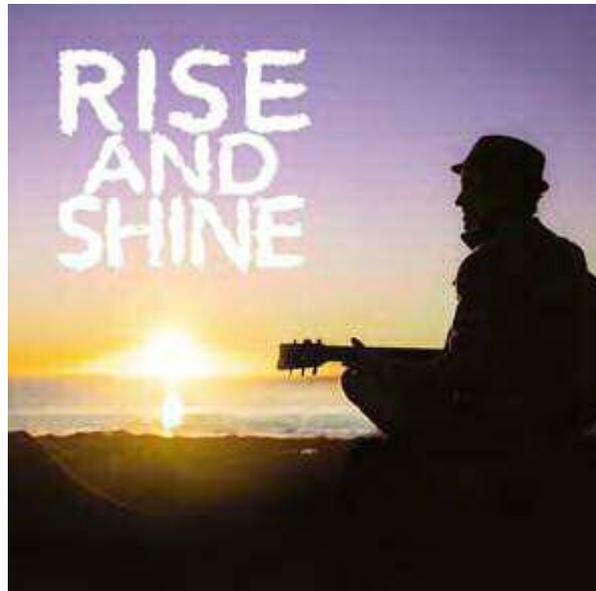
The DVD finishes with Johann Loibner, MD, saying: "The authorities don't interfere if the parents feed their children junk food daily and allow them to have sugared drinks for breakfast. No one cares. But when one single vaccination is missed in the vaccine booklet, panic suddenly grips them and they are indignant. This is just ignorance and hypocrisy."

*We Don't Vaccinate* is a belief-changing DVD that's definitely worth showing to your family and friends.

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# MUSIC

Reviewed by Richard Giles



RISE AND SHINE  
by Juzzie Smith  
Juzzie Smith, Australia, 2015 (40mins)  
Distributor: [www.juzziesmith.com](http://www.juzziesmith.com)

Juzzie Smith has a fantastic feel for the blues. He started with the harmonica at age 13, and by 23 had won Tamworth's Golden Harmonica award. He has the skill to play guitar, harmonica and percussion and to juggle all at the same time! This makes for stunning performances— which I can testify to, having been captivated by him at the 2015 Mullum Music Festival. Juzzie combines real rhythmic talent with a raw, warm vocal style. His performances make you want to stand up and jump in time. An exceptional CD.

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RIMA  
by Moana & The Tribe  
Black Pearl Ltd, NZ, 2014 (52mins)  
Distributors: New Zealand—  
[www.moananz.com](http://www.moananz.com)  
Germany— [www.sol-de-sully.de](http://www.sol-de-sully.de)

Moana & The Tribe, led by singer-songwriter Moana Maniapoto, are a New Zealand Maori and Pakeha group who do a beguiling blend of *waiata*, *haka* and rhythmic electronica. A Moana concert is a dancing treat. Standout tracks on this fifth album, *Rima*, include: "Water People", a rhythmic tune with *haka*, chants and solid groove; "Warrior Woman", about women's roles; the moody "Ko Au"; and "Aotearoa", all electronica and dusty. These songs, they say, "are inspired by people and communities who are so passionate about our land, ocean and people that they are moved to make a difference".

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RWANDA IS MY HOME  
by The Good Ones  
IRL, UK, 2015 (36mins)  
Distributors:  
Aust—The Planet Co., [www.theplanetcompany.com](http://www.theplanetcompany.com)  
UK—IRL, [irl.bigcartel.com](http://irl.bigcartel.com)

The Good Ones are four men who survived the Rwanda massacres. They do fascinating folk music dealing in part

with the genocides that each of them has witnessed.

They represent the unification of Rwanda's three tribes, with each having Tutsi, Hutu or Twa (Pygmy) origins. This is their second CD and their street-songs style is testament to the healing power of music and peace. Their acoustic album is at times powerful, with moving love songs and heartfelt tunes sung in harmony. Beautiful and uplifting, this is an unusual and stirring CD.

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**GAEARTH DREAMING**

by Kimba

Gaerth Records, USA, 2008

(CD/DVD 2-disc set, 60mins each)

Distributor: USA—gaearth.com

Musician and sacred sound therapist Kimba Arem created this CD/DVD to honour Gaia, Mother Earth. *Gaearth Dreaming* works as a multidimensional experience of inner space, delving into the subtle realms of overtones and harmonics. It features frequencies created by tuning in to Nature's resonance and exploring the sacred geometry intrinsic to intentional music. Kimba aims to inspire the activation of the guide and healer within. She uses binaural beat frequencies to take you deeper into progressively more relaxed brainwave states.

Interspersed are different animal and insect sounds, mixed with the tones of ancient indigenous instruments. This CD/DVD is a tool for directing your inner mind and body.

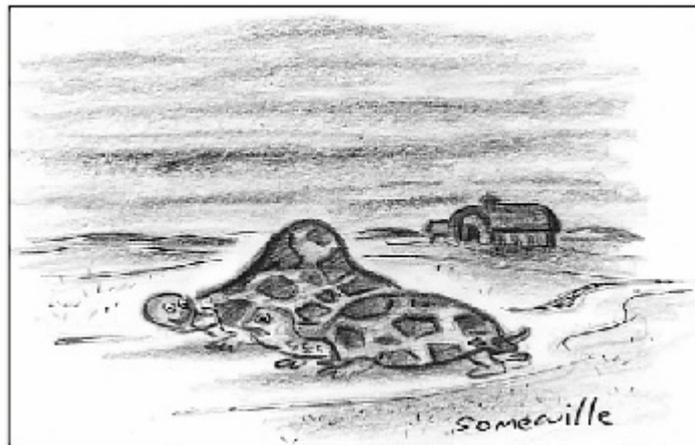
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# Cartoons

by Phil Somerville



*"So, Irfam, I gather from the singles site that you're a first-gen prototype artificial intelligence."*



*"No, it's not a genetic mutation. I had a home cinema installed."*





# NEXUS

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